

WINTER GAMES

MEGA REVIEW

WIN

ADRIAN MOLE GAMES

ENHANCER New 64 Disk Drive

EUREKA!

How It W Introduction Screen Screen

reen Scri Mean T



BLACKWYCHE Mapped Top Ten Spreadsheets



CONTENTS

NOVEMBER

5 WHAT'S GOING ON Commodore's plans for

Commadore's pians lor Christmas, new games, peripherals and more

25 WINTER GAMES

Screen Scene gives Winter Games the review treatment, plus Crowther's William Wobbier, Minter's Balalyx and o whole lot more.

PEOPLE

iller France in France in

Comments of the Comments of th



A MIXED BAG

64 utilities rounded up include a synth package, a BBC emulator and an 80-column word processor

64 ENHANCE YOUR

At last, a 1541-compatible disk drive — we review the Enhancer 2000

REGULARS

REGULARS

FEEDBACK Wille to us and win yourself a great t-thirt.
 INTO THE VALLEY Robin of Sherwood Tenaramolinor and Addition Moleteviewed — plus ten Mole games for you



21 US MAIL Dan Gulmon lists his wacky Chilstones gift ideas

51 PROGRAMS A great laser shooting game for the 64 and a set of brain-curding puzzles for the 16

70 BUILD YOUR OWN ADVENTURE

— Part 2

Here It is, the tinal instalment in our DIY adventure

76 HOW TO BUY BUSINESS

SOFTWARE
Where do you gel advice?
Where do you go lo buy?
Your questions answered

78 BEAT IT
A drum mochine for the 64
— we've ployed around with the new Digrdrum.



59 HAPPY HACKER HH lakes a modern-bleak to play Activision's new Hacker game

64 HOT SHOTS More snippets from the Big EoI plus map of Ultimate's

75 BOOK REVIEW Nick Hampshire's latest plus two new books in the Screen Shot series.

85 BUSINESS Top Ten Spreadsheets ninshes our look at what's best lor

93 TOMMY'S TIPS Tommy mines some more gerns of technical info



shous Ltd. The Smithy Lint 1. Church Farm Hatriey St. George. Nr. Sandy. Beds. SG19.3HP
Tel. Gardinouv 3757151461/51 Teles. B17117 ETHIGEN.G



£14.95

SYNTRON DIGIDALIM The Syntron Digidrum Is an exciting

professional digital drumcomputer designed to operate with the Commodore 64. Using 'live' digital sound samples

which are encoded onto software the user has a programmable drum machine with a sound quality many times the price.

Easy visual grid programming, hear the sounds you enter, 51 patterns evelleble in memory plus 10 songs linking 100 patterne together ere possible with full copy, insert and delete functions.

Whether you want to play along to it, do demo's and record with II, sing slong and dence to it or inal enjoy programming it - The Syntron Digidrnm - Get Itt

The Syntron Digitirum comes complete with hardware user port connector, audio outtrigger ant, assy to follow user's guide softwere with the first eight digital

samples incinding Grash Cymbel. Snare Drnm, Bass Drnm, Floor Ton Hi Tom, Med Tom, Open Hi Hall

Closed HI Hat and programming functions The software nielns e complete sel pl ansetted notherisacon and songs - All this for nsl 265.00 Inc VAT

already a new sound sample set in preparation which will contain over 40 new samples including Syn Drums. Latm percossion, Hand Cleps and many more for only £16,501 All purchasars

of the Syntron Digidrom will receive detarts of the new sound samples as they become eveilable plus a FREE subscription to the SYNDROMIC USERBASE which includes a membership card and a FREE gnartarly newspaper on computer music and computer Please IIII out and return the conpon below

THE BBIG BBBLACK BEAT BBBOX

I would like further information on the System Decident

I would like to order my Syntron Digidrom(s)

Syntron Digidrnm - Drak version @ £85.00 Inc VAT

- Cassella varaion @ £85 00 Inc. VAT Please add £2.50 for packaging/postage/inenrance.

I enclose a chequa/poetal order - mede payable to SYNDROMIC MUSIC - to the value All orders should be sent to SYNDROMIC MUSIC, Dept CU1, 35A Grove Avenue, Landon N10-2AS

SYNDROMIC MUSIC GUARANTEE Not to Bank your montes until the Goods are ready for Dispatch Please allow 21 days for delivery digi ever hear such a sound?

What's going on What's going on What's goin

Gift-wrapped 64

Christmas comes but once a year, it makes us think of festive cheer and computer companies of ringing cash registers (some wistfully). Commodore, like the rest, is already planning its Christmas battle tactics. Stung by last year's lack-lustre sales figures, it's announced 'bargain' deals that should make Sale of the Century look mean. Here's the law-down:

Christmas Compendium: comprises 64, datasette, Music Maker, Activision's Denmer's Penal, Mosaic's Adnan Mole game and a copy of the book, The Growing Pains of Adrian Mole. The whole lot comes gift-wrapped (you'll need a large stocking)

The idea is simple, according to Commodore UK marketing boss Chris Kaday "When people open their presents as Chad mes they expect to have everything they need to use them strught away That lot should keen you occurred at least until Boxing Day Grandstand

Peripherals Pack: amed at the exising user, you get two peripherals, the 1541 disk drive and the MPS 801 prioter for just £199.99 - according to Commodore, "two for the price of ane"

 First-time Pack: for the first-time. user who wants nothing to do with tapes you get a 64, a disk drive and two disk games (Super Zaxxon and Exodus Ultima IID, all for £299 95.

Despite our announcement of the early appearance of the 128, astute observers will have noticed none in the shops. The the 1570 disk drive, a cheaper, single-sided version of the 1571.

good deal less than the £269 (same nrice as the [28 itself] quoted for the 1571. But you'll be able to get the 128/1578 combo for a 'special offer' price of £449 95.

Sold separately, it should cost £199.95, a

Moving on to the humbler 16 and Plus/4 machines. Commodore is quashing comours that the aforement oned will soon be no longer "There'll be pleasy of machines in the shorts for Christmas", 8878 Kaday But if the present price-cutting on the 16 continues, we'll soon find it popping out of cornflake packets.

Meanwhile, at's rumpured that even big-Several Hugh Street chains have signed up a deal to sell the machine plus datasette plus ten games for (wait for it) - £99.99 Someone's going to have a bumper Christ-



Boxed Screen Shots

Durling-Kindersley has packaged up its successful Screen-Shot programming series for the Commedore 64, into



The Starter Pack contains Book One and Two in the series, together with a Typing Tutor program on cassette. That's strictly for beginners. The Graphics Pack, containing Books 3 and 4 (reviewed this issue), is more advanced and dabbles in machinecode. That also comes with a cassette that contains all the programs listed in the books, including the graphics and sprite editors — great idea. The Packs cost £15.95 each, More details on 01/240 5151.

> ● Shorts ● Cheap EPROM: Combridge Microelectronics pra-

> duces a bargain-bosement EPROM pragrammer that's closmed to be easy to use even for the beginner. The Prom-64 device costs just £34.75. Alsa available is Cart-64 for mounting and reading your burned-in EPROMs (£5.95), and an Eroser (£18.95). The cam pony alsa sells BK EPROMs for £3.50 each - all prices exclude VAT. More details on 0223 314814

Shorts

DIY Cartridge: Looks like DIY cortnoges for the Commadare 64 are all the rage right naw. Yet another system has appeared. This one's called the Epiloa System fram Sircal Instruments It's a camplate EPROM programming and erasing package that cames camplete with one 8K cartridge. That lot will cost you £144.95, and you can get additional 8K cartridges far £17.95. We'll be raunding up all the available praducts early next year.

Meanwhile, mare into an 01-644 0981. • Shorts •

The Blg news: is that Big Daddy has been signed up by Melbaurne House ta endorse their caming wrestling game - Rack and Wrestle. Big Daddy will be featured on the box and in the game itself, which is being written by Greig Bornett, gulhor at the Exploding Fist.

What's going on What's going on What's going

Lounge Lizards

Fans of now-defunct TV series "V" will have witnessed the hecking of the Visitors' control computer during one of the programmes.

In that epsode a terrage backer, using a portable micro, changed the battle plan of the lizards' attacking force, stopping them from mounting an all-out offensive on the Resistance base No — it wasn't a

The bad news for lovers of the lizard-lake altens who disguise themselves as humans with plastic masks is that the series that has just ended may well be the last

A spokesperson for Thames Television told CU. "The American producers of "V" have not yet decided whether or not to make another series. Even if they do, a decision will have to be taken here whether to buy it or not. And there are no plans at the moment to schedule another series of "V"."

But the scheming Duma and Lydas will return to the small screen with or without Thances thanks to a computer game based on the programme courtesy of Ocean Softwart. Ocean's boss of software development, John Woods, promases more infermation on the V game next month. Watch this space



Diana and Lydis don't look too pleesed. You wouldn't be either if someone had just hacked into your 64.

Control of the second of the s

Colossus goes 3-D

Fens of the Colossus chess program for the Commodore 64 will be pleased to hear that CDS hes finelly released the improved Colossus 4 Chess — at 49.34 on tape and £14.95 on disk. So what's so special about it?

The new version has two screen display options. The coveremonal 2-dimensional 2-dimensional board layout can be changed to a more realistic 3D perspective. Ploots can be moved using a joyatek According to CDS, the program Plans a perfect indersional properties of the program Plans and program and the realistic and the same of the program properties. The screen and draws by repetition, and claims to have beaten all these other leading 4d preclages — but can it term a strp off preclages.

Now for the PROLOG

Not so long ago Commodore \$4 owners were stuck with either Besic or machine-code to program with. But alcemetive lenguages ere now mushrooming, the latest example being PROLOG, the new 5th generation lenguage thet's being used in 'artificial intelligence' end problem solving.

PROLOG atands for PROgrammang m LOGic. n's a powerful language that cleans to be easy to learn for people with no programmang experience. It deals with 'knowledge' rather than 'data' you describe the problem to be solved by staring fixth and rules about n. PROLOG then searches for possible solutions

The Commodore b4 version comes from Lope Programming Associates and it called LPA murv-PROLOG. At £80 (inc VAT) it doesn't come cheny, but as well as the disk and a very comprehensive minutely you get Tom Coolino's introductory book Start Problem Solving mash Prolog We'll be reviewing miner-PROLOG and more new languages in January. Meanwhile, more details on 10, 1871–2016.

• Shorts

Micronet Carrior, Moke o nole in your diory for the 29th Catober if you want to talk to APP William Powell (responsible for the software Calebrity Challes of Word Calebrity Challes of Word Calebrity Challes of Word or seems to be going well, with the weekly paper Computer vacacies on line. Finally, there's a new area on Micronet for Carrifacel Audicance for Carrifacel Audicance for Carrifacel Audicance of Carrifacel Audicance for Carrifacel A

● Shorts ●

16 characters: There's so little software around for the 16 that we feel it's our duty to tell oll if new material oppears. The latest orrival is o Character Editor program £7.95 on tape, ollows you to copy the chorocter set from ROM to RAM, redefine ony of the characters and obtain a data table for future use. F1 and F4 toggle between the normal and redefined sets. The program is Zion Systems, 24 Camp Road, Farnbarough, Hants.

What's going on What's going on What's goir

Shorts Dabbit rerun; Rem

Robbit Software, the company that specialised on Commadare machines and went bust? The name is being given a new lease of life as the bridget lobel of Virgin gomes. All Robbit titles will cost just £3.99. Already available for the 64 are Dariath lareade adventure) and Zvto (climb 'n' collect). Will those get the competition on the hon?



Ultimate in Egypt

Before you've managed to plough your way through Blackwyche, the final instalment in the Arthur Pendragon sava. Difference approunces at latest same offering, linhotep. Imhorep covers new ground for

Ulrimage you're whisked away to ancient Egype, where your wackily named hero must perform certain tasks set by the date scheduled for mid-October - that means you probably won't get one until December Prices ray the same at 69 95 on cassetre We're already getting genned up



If sound affects like echo, looping, senent or reverb are what you're after. Datel's new Digital Sound Sampler for the 64 could be for you. At £49 99, the device plugs into the certridge port Softwere comes on tape or disk and inokacies a full chromatic kayboard to play a complete musical piece from a smale sampled sound Sounds neat. We'll be raviewino it soon. More into on 0782

New Handic database

New from Handla Software. creator of the successful CalaResult spreadsheet. comes Databose 64. a powerful cartridge based program. But at £89.95 is may struggle to make an Impact in this aiready prowded 64 database

Its vital statistics go like this, max 3800 records per lile, max 18 lields per record, 27 characters per



lield and 254 characters per record Although II looks easy to use, it seems some cheaper programs More details on 8344

_____ function calculator, text Vizawrite for can be arranged and

The C-128 version of Vizawrite, the well-respected wordprocessor for the 64 should now be available tt's called Vizawrite Classic and will cost £99 95 For the money, though, you get a There's a pull-down fullprinted in up to eight newspaper-style columns. there's a spelling checker, windowing capacity and a with dot matrix printers (you con even customise your own), Also, several printer profiles can be created for sophisticated contral of output. Viza Saftware is on 0634 813780

Advanced Cash Trader

Quick-Count has produced Cash Trader book-keeping package for the 64 It was upgraded primarily for the Plusi4, which is now doomed to extinction. The now 64 version is spill into three modules, transaction processing. VAT and accounts

Enhancements Include the ability to ask how much space is left in the Transactions Ille, and Inclusion action for every nominal ledger account The VAT section now gives the opllons of refallers' schemes A. B or F. scheme C or scheme D. More detalls on 01-202 5468

Fantastic Fiver

Why do business packages have such boring names? impex Designs is changing all that with Fantastic Flyer, a new low-cost database package for the 64. The program is available on

disk for just £12 95. Specifications include the capacity for up to 1000 average-sized records. each record containing up to 50 fields, with up to 254 text characters per record

_____ Searches can be made by record number, indexed key field, or multiple criteria entered on a blank form findexed or record number searches are anickest). There's also a on 01-900 0999





Write to us and win yourself a T-shirt (S,M,L). Letters to: Feedback, Commodors User, 30-32 Farringdon Lane, London EC1B 3AU.

Sweet 16

Dear Commodore User. would like to congratulate you on such an interesting and useful magazine. I am # C-16 owner and have found that Commodore Hear is the biggsst support available. When I open Commodore Usar my spirits are raised to see reviews, type in games and so on. So please keep up the good work as you are really the only sup-porter of the C-16. Any C-16 owners who are in terested please writs to me, all letters replied. Alan Rutherford. 7 Russell Place.

Busby G76 8JN

Thanks for the compliment. Bad news, though, from Commodors. They've just signed the 16's death warrant by announcing it will no longer be produced after Christmas. That goes for the Plus/4 too. But we'll still support the 16 if enough people want us

Jaystick jury

Dear Commodore User, You mentioned on the Fsedbsck pags for Saptambar that you would like to hear from readers, what they would like offered as prizes in competition. This family ell agrasd that new joysticks would be the sort of prize they would R. Hales, liks to eee offered. Hoping that as they are less expensive than new comone would be on offer so winning. We slso next year.

wondered if a review of joysticks, trackerballs etc. would be possible. hopefully to advise which ones are suitable for which jobs eg., accuracy for drawing packages, spasdy rasponsas for aporta simulationa.

Winner takes all

Mrs. J. Drayson.

Bournemouth.

Dear Commodore User. Like so many of your readers, I entered your C-128 competition. Like so many of your readers, I didn't win.

But no hard feelings. Because there is something else I would like to win. Something so incredible it defies description. The Amige! For months now you've

been teasing me, telling me how great it is, but it's about 1.000 guid beyond mel

So think how great it would be sales wise! The photo on the front cover — WIN THE MOST IN-CREDIBLE HOME COMPUTER EVER - or maybe even two or three! Surely anyons who nor- Joebear Webb, mally buys one of your rivals (God balp them) ohance. And there are soms Vio owners shout, who although happy with the Vio, would be happier software wise with # 64.

Wisbech, Cambs Never mind CU competitions, we'd like to win an immoral, I dismissed it. puters, disk drives or Amiga ourselves. To all thinking 'It's only a printers, that more than you hopefuls out there, you hopefuls out there, game!', but since reading there's nothing doing up. Mike Pattenden's views as to give us more hope of til at least the Spring of on 'Beach-Head II' in

Pascal Rascal

Dear Commodore User. I was intrigued to read in unor News section that ian Sinclair's forthcoming book, on Oxford Pascal, finds this Pascal shoot-up games and implementation so atrangth to withstand impressive.

Last year I hought the cassette version of thus sdvertised on in sll respects the same as the disk version, only to find it wouldn't accept userdefined types, without which Pascal programming is a no-no. The company's engineer confurmed this on one of their cassettes - to his surprise, apparently, and suggested I got the disk

varaion. That would have set ms back another £40 and £200 for the drive. In diaguat I let them get away without a com plaint to the police under the Act, and put the cassette in s draw.

Presumably then Ian Sinclair's axoitament was inspired by the disk version - I'll have to buy the book and ses if he tried the bumbler - and uesless - cassette version: if not, save up the £240 to use his book.

London NW2

Videa nastles Dear Commodore User.

Like many others. whenever people criticis ed games such as 'Raid Over Moscow' for being Santember's Hotshots, I

began to realise that the problem is more serious.

Since the true potential of graphics and sound of our more popular comand with the release of the Amiga, scenes are becoming more life-like. until some day the viotime of our shoot em ups will look and sound like real people dving, until ws may no longer be able to tell the difference.

This will be worse than video 'nasties', as here. to do well in the game. WE are encouraged to kill the opposition. Surely this is not entertainmenti I admit, almost half of my gamee contain shoot em up sections, but we must be careful not to transcribe this into real life. We may need s government department to cansor computer games?

Also, if extra terrestrials DO axiat. do you think that, after observing us, they will want to make any encounter, close or otherwise, with a society which zans computerized sliens in their spare time?

Darryl Wabb. County Antrim.

International replies

Dear Commodore User. Your magazine seems to have worldwide interest! recently pleced an advertisement to SWAP or SELL my games collection in your Classified Ads section - I'm not giving them up, just collecting the best.

I had s number of replies - and I replied to everyone who sent an SAE. If anyone did write and didn't enclose an SAE I bope you'll let ma thank them for their interest through your pages, only the cost of return postsge would have been enormous.

Two of the replies were of great interest - one from Stefano Sabstini in Italy and the other from Vaughn Sandor in New Jersey, USA! Andrew Clarks

Atherstons. Warwickshire



DYNAMITE DAN

94% Crash Amstrad/C64 £7.95 48K Spectrum/Spectrum+ £6.95

Popular Computing Weekly Pick of the Week



Maxwell House, Worship Street, London EC2A 2EN. Tel 01-377 4644
Trade orders to: Mirrorsoft Purnell Book Centre, Paulton, Bristol BS18 5LQ.

There's never been a better reaso

WINTER

You've captured the gold in Summer Games "and Summer Games II"—now it's on to the Winter Games! And what an incredible setting—a completely mailstic winter wonderland featuring its action-packed events. You can compete against your friends or the computer. First choose the country you want to represent. Then

First choose the country you want to represent. The It's practice, training and learning a winning strategy for each event. Now the Opening Ceremony and the competition begins. Will you be the one who takes the gold at the Awards Ceremony?

The quest for the gold continues...And it's all here the strategy, the challenge, the contipetition, the art of page and the page and the continues.

- > Six Winter Events: Bobsled, Ski Jump, Figure Skating, Free-Style Skating, Hot Dog Aerials and
- Opening, Closing and Awards Ceremon
- complete with National Anthems

 > Compete Against the Computer or Your I
- and Skill
- One to Eight Plays













on for looking forward to Winter! **DISK £14.95** CASSETTE £9.95 COMMODORE 64/128 DANICE

re Adventure Adve

oreenery

When we exclusively previewed Adventure International's Robin of Sherwood: The Touchstones of Rhiannon in July, the same team's first homegown talks, Greming, was already by Land looked in he.

grown inte, treemons, was already No. I and looked to be a lared an to follow. And there was a question mark over whether even the expertise and experienced Braat. Howarth and Miles Woodroffe could capture in a comparter advenure the etherial discussion of Parkhard Comment.

which the game is based.

My verdich is that they has irrumphed absolutely and, wif the added raient of graphics wiferman frunk, have produce one of the most our andm.

Touchstones is the first itt a

titles planned by Al, and in this your goal — as the Hooded Man of course — is to track down a number of magical stones and thus fiveser the even necrossance who have become death at the law becomes the back by the properties of the Lufe.

who has bewritched John I intemong others

Bus, your day doesn't begro oo promisingly. A fough start is Brian Howarth hallmark, and to fewer than 12 (ar the



BY JOHN RANSLEY Phew, what e menth. M proise has is lookin

Phew, whole menth. My preise bag is looking pretty empty now that I've heaped it all on to this menth's crop of

Sherweed, the ne Adrian Mole gome et rerormelines to revie tracetting reelly diffict to say anything nost Maybe sext manth...

Terrormolinos

i friend just bock from holiday E n a supposedly undiscovered to by rourists) Greek taland h refered kebab for her first din-

cages, baked beans and a basic of OK Sauce. Maybe the spinitual home of Zarba the Greek wall be, the next target for the authors of Terrormolinos (Melbourne House, £7.95), who, not content with lamponomy the Habitat high lifers of NW3 in their debut nite Hampined, now po



■ ADVENTURE NEWS • ADVENTURE NEWS • ADVENTURE NEWS • ADV

• Bug-Byte may five again, much to he joy of thousands who played Yulir Kingdom Walley, fivalled in oppolarity orly 1978. Appl. Persa Software's Peter Holme tells me that he's hopeful of reviving the Bug-Byte label, which has been dorcaller this year. So there may be not only enhanced versions of TNV for the C128 and Antigle is come, but the sequel which have thalf was may see the light after all.

Tynesoft have persuaded the Indelatigable Bran Howarth to burn even more midnight oil and produce Lone Survivor In time for a Christmas launch, Possibly life world's tirst adventure for mand depressives, It takes as its scenario

the day-to-day existence of the only survivor of a nuclear holocaust e infocom undoubtedly produce

the world's beat pure lox deventures — just a pay that they're also beyond the pocket of most this side beyond the pocket of most this side cut of trichthick's Guide to the Gabay, for example, costing around 60. But where the side of the 60. But where the side of the dies at the company's Boston Mo are even now example, meaningful are even now example meaningful touces, with a view to manufacturing and marketing in this court the newest Infocom titles such as hall their current import prices or

erc • Global Soltware could set the pace for enhanced adventures that

make the most of the C128's latter memory, for whitle most labels appear content to lisate assing titles as being C128 compatible, Global chet Mike Danleis tells me that their next offering, Did Frends, with their next offering, Did Frends C128 version featuring a bumper somiting map that the 64 can't cape with. Old Frends has a them of content per person of the content of the c

Mosaic mix methodology, mayhem and Whitehall mandarins in Yes Minister, an adventure-cum-stralegy based on the hit TV series in which, adopting the persons of the Minister private secretary, you have to steer a course between James Hacker and Sir Humphrey Appleby, It's due out after Christmas at 29,365 or 121,950 nd to the Minister of the Minister

Adventure Adventure Adventure Adve n ture



evading the custle guards and a brt hard on the old arri. Stril, ir

I made a request to EXAMed YOU SEE NOTHING me, because now I was able to SPECIAL, which I thought was

other perils - but the prize for was ber window that really mmaking the right responses is so regested me anyway, because it

> move around fairly freely, in the Trever Lever on The Outl. on ture Like Adrian Male, It's a vaciation on a theme. Maybe

Hunter (who explained my ob-Knights Templar, and Gregory the tax collector (remember how

Soon after entering a small village I found the frist touchstone; early and welcome Trudgues through the forest ris animated water eascadrog over the rocks, this must rate as one of the prettiest scenes over presented in a graphic adven-FALL produces an equally un-

that Touchstones2 140 rilustrated locatrops racinde several more srantariy annuated acenes. If they are anywhere near as good as those This is where Touchstones when I have trine to explore this

space of just a couple of dozen graphic laurely, because the parser that accepts both proper sentences and multiple commands - a refinement that's still too often the exception rather input You can also ger drunk with power instructing your merry men to follow you or

Touchstones of Rhinannon can be unreservedly recommended for adventure gamers at all levels of ability. That tricky dungeon spart, beginners can move around fairly nimbly, visit plenty of locations and meer many characters without having to solve loads of difficult puzzles - while more experienced players will be able to fully exploit the game's ability to accept sophisticated input, And all will enjoy the real treat of Touchstone's splendld That's not to say that graphics. It is an absolute

package tour m a new-style graphic adventure that mer criessly depicts the awfulness of and knotted-handkerchief

not just to experience but surterminal paddling For proof of your restlence (and there's Beryl. the wife, and your kids Doreen and Ken to think about, too), you have to comode an album of ten holiday maps taken ar different locations. Each tune yon're successful, your preture saucy McGrll seasrde poercard -

At first I thought that these the game, but MH designer Mike Robmson and programmers Roger Taylor and James Byrne have managed to squeeze visual confirmation of the disasters which can befall you and bring a game to a swift con clusron - such as when you collapse with sunstroke or get arrested for vagrancy

molmos, you can immediately resort, and deciding on some take you in the mehr direction developed by Perer Jones and pur is restricted to single-word new and frequently amusing commands and verb/noun nams. though you'll find that a few Spanish phrases will also come



Terrormolloos does rely a little too beavily on what is really just one expanded joke to make It work, bur Lever and lones manage to keep it fresh. It wouldn't hurt to have more like them writing 'alternative' computer sames. After all, and strange though It may seem, nor all of us actually want to be Rembo

CHARTS ●

- 1 (1) Red Moon C64/128 (Level 9, GrA, £6.95)
- NEW 2 (-) Rets C64/128 (Hodder & Stoughton, GrA, £7,95)
- 3 (3) The Fourth Protocol C64/128 (Hutchinson, GrA, £12.95/£15.95 disk)
 - 4 (8) Terrormolinos C64/128 (Melbourne House, GrA, E7.95)
 - 5 (2) Castle Blackstar C64/128 (CDS, TA, £2.99)
- NEW C (-) Mordon's Quest -- C64/128 (Melbourne House, TA, £5.95)
- 7 (5) Beatle Quest C84/128 (Number 9 Software, £9.95/£11.95 disk)
 - 8 (6) Subsunk C64/128 (Fushind, TA, F2.99
 - 9 (6) Gremtins C64/128 (Adventure International, GrA, £9.95) 18 (7) The Jewols of Bebylon - C64/128 (Interceptor, GrA, £9.95/£11.95 disk)

It's no surprise that Level 9's top-quality, med onced Red Moon has managed to hold onto the top spot for the second month running, but now it has a new challenger in James Herbert's fearsome Ratty fiends in fur who may well mibble therr way into the top slot by Christmas

The new Costa Brava spoof from Melbourne House (by the duo who brought you Hawastrad) moves a few more places up the ladder of success, and Jon Jones-Steele's impressive sequel to Classic Adventure makes its first chart appearance this month. It's a case of switch and swap for all the other titles, but Robin of Shermood and Adman Male are likely to join forces in esoging a few changes in next month's all-important Christmas ratings. Be sure to catch them here in Commodore User.

Adventure Adventure Adventure

Adventure

Male laves Pandora

Sue Townsend's saga of postpuberty intellectual Adrian Mole has, it seems, sheady captured the imagination of every other Third Former in the country and with Master Mole's confessions of his passion for the unettainable Pandors, his dead embarrassing mum and his series. The Secret Diary of Adrian Mole aged 13! - The Computer Game can hardly ful to be a but Yet it deserves to be one simply on its own ments.

Given the specess of strongly graphic titles this year, is couldn't have been easy for Mosaic to decide on an (very successful) effort to remain Irue to Sue Townsend's ongmal The result is a game that does have plenty of graphics to tighten it i looks, but which also

Thus the player is able to cidentally, many of these scenes scroll through the pages of have been changed slightly so that It offers even the Mosaic and a merit mark for Adman's dury for a year and although familiarity with the



EPIPHANY, HEN

ing some milty text compression choose one of three courses of ac Drary and Growing Pains to-

books may help, you can expect

Progress through the quarter of games is simply a matter of sonching key t, 2 or 3 on the special command and help menu pofestranon about a particular character. Save or Load a parneulas effort, and snramon assistance. Your overall objective is to make Adrian as unpopular players will love the as you can, and the screen fiemently remands you of your cur-

youngest player - from Level 9.

about ? upwards mediate enterrainment, involvement and enjoyment. There are no agontsing puzzles to solve, and the command system is so simple that there's an problem about mistakes in the spelting or syntax of inputs jamm-



ing up the works. Older playground polities, the Adrian and his schooldesk sex symbol, and the richness One of the most attractive of the characters and features of Secret Diary is dialogue. Ten out of ten for

■ ADVENTURE NEWS ■

 Adventure International have at last released the tirst softwara ver sion of the Fighting Fantasy bestsellers by Steva Jackson and ian Livingstone Seas of Blood, based on the authors' original Puffin Interactive paperback, otters fullcolour graphics at each of its 280 locations and combines combat In-



terludes with conventional text inputs and response. Prica is £9 95 or £12.95 on disk. Naxt titla released will be Appointment with F.E.A.R.

· interceptor plan to release a 64/228 Implementation of Warlard In the New Year A 100-location puzzlar see his shirt bill), it sports some of the nicast graphics yet to come out of Richard Paul Jones' Tadley talent shop. Warlord depcts a struggle betwaan tha Roman legions, Caltic Iribas and the gods in 5th century

· With the success of movia arcade/adventure spin-offs Rocky Horror, A View to a Kill and Gremins. British software publishers who were beaten to the post by Ocaen for the rights to The Never Ending Story will now try to bargain for rights to Life Force. Adapted from Colin Wilson's bastselling novel The Space Vampires and reportedly the most layish SF film ever made, it all begins with an allen spaceship 150 mllas long ap-

 Ail American Adventures are heavily committed to a programme of imported titles well Into 1986 US Gold's thinking man's subsidiary

proaching earth.

will (spokesperson Louise Jones assures me) chase the strategy/arcader Exodus: Ultime II and newlyreleased Wizerd and the Princess and Hysses and the Golden Fleece. Mission Asterold and Luciter's Realm. More in the mould of traditional graphic/text titles are Masguerade, Wyld, Asylum and the highly innovative Aitemale Reality which was blowing the socks off praylawers at this year's Chicago

· Microdeal keep falth with C18 and Plus/4 text adventurers by ad-Mansion Adventure with Castle Dracula, Jerusalem and Ultimate, elso at £3 99 each.

Telerium's new releases include a Perry Mason whodunnil flust up your Della Street?), and Nine Princes in Amber by award-winning American SF author Roger Zelazny. in which you must collaborate with but outwit eight traacherous brothers and four schaming sisters The graphics loo ara out of fhis world. Full reviaws soon



Mathew Woodley, the 15-year-old who finally made the right connections in the Euroko gome tells John Ronsley how he scooped the world's biggest adventure prize.

The very first adventure hard!". Mathew ever tried was The was never really able to get into n "I'm afraid I found it boring I played other adventures on and off, just to see how for I could get in them, but Eureka' was really the first to have a lot of

armosphere " Map-making was the first weapon m Mathew's armousy. "I immediately started making maps - but I didn't think when I began the game that I'd bave a chance of being the first to solve it and winning the money. I just played it as a pastrme."

didn't take the five sections of chronological order in which they'te presented on the tape bor them in a strange order.

· Ancient Rome came first "That part gets difficult when otherwise nothing stands out in hard". He adds with encouraging modesty, "It was all . Preblstorie Britain was means starting all over again

you're not sure what ingredients ETTE - but I was really con- served as a useful disguise "One tempted to going the whole you need for the potion, but fissed by that and at first I just of the worst problems here is hog and ordering an Amiga. my memory as being especially the end my brother Mark beli before you get caught in the but it's quite pricey", worked that bit out for me!"

perhaps Mathew's least favourate part of EUREKA! It didn't take ham very long to complete at -

you're on the galley, because the program would accept " wasn't sure that I was r there you learn to speak Latin "Once I'd come across the because I expected . Colditz was the next section about the dinosaur But then I Domark phoned my mum to say to come under Mathew's found that I couldn't complete it that I'd won the money scrutiny, mainly because of his because one of the questions is Right now, Mathew's so busy interest in the Second World about King Arrbur's treacherous sweeting for his O-Levels, and War and the exploits of the nephew, which was revealed in collaborating with Eurekal Tommea who walked out under the Arthunan game So mstead I author Ian Livingstone on a Mathew revealed that he the moses of Jerry in stats looked up the answer in a book." book of maps and solutions to be fashioned ont of parachetes, and @ Modern Caribbean: published at Christmas, that he EUREKA1 on the natural all that. "This part was just as Mathew then spent some time hasn't yet given much thought to difficult as Ancient Rome, but sunning himself in the Modern ways of spending his prize sometimes I got caught our over Caribbean, where he found it money mstead tackled (and completedly really sally thangs For example, useful tossing a carcase to the But, loyal to the micro th

Arcade interludes

Advent

know critated and continues to urntate many adventurers used to conventional gamenlay is the proude game interludes - but according to Mathew, no one mastering them. "I play arcade games more often than adventures," says Mathew, "but Furekal ar all."

"I tbink they're really a waste of time. They don't affect your progress that much - they just add a certain amount of visour. but you can do that by extrao certain things anyway. It's quite a good rdes to have arcade games within an adventure - but they need to be more interesting than the ones on FIIRFK Alb In any event, Mathew had worked his way through all frve adventures by Easter, and now began the work of using the information

It took another five month scrutiny of the EUREKA! booklet, deduction and probably no end of lateral thinking before Mathew finally stumbled on the ric telephone number

It's for you-hoo

and perhaps that's because it was Mathew explains. "It was an originally intended to be the first answerphone and 1 was part of the adventure that mstructed to leave my name, Knowing that some players players should tackle, and was address and phone number Hobbit, but he admits that he regretted having neglected their means to be a slightly easier level and a message to explain why l schooldays Latin, I asked than the other sectrons. "Also, was calling But each time the Mathew whether this aspect had by now I was beginning to get tone sounded for me to speak, I foxed him "You're okay once used to the words and commands put the phone down! I just wasn't sure that I was right, fluently," he explained, "And dinessur who runs around answernhous in say cometime the Latin that does crop up at shouting, I loaded the Modern about Eurekal So I left it and the beginning isn't too difficult. Cambbean section and was able phoned again the next day. This anyway". If you say so, Mathew, to answer the questions it asks time I left a message and then

after you've escaped from sharks and adding a metal strm made it all possible, he Colditz, you next have to FREE to his inventory A brightly intends to treat himself to a BRIGITTE or SAVE BRIG patterned Hawaman shart also C128 - and admits to being couldn't find the right words. In trying to get off the conveyor "It's a tremendous machine crusher. If you are killed, it comments Mathew -

should worry.

Adventure Adventure Adventure Adventure

COMPETITION

MOSAIC's marvallaus Adrian Mala game is sure to be one of this year's favourite adventures among brainy hypochandriacs — and there's na easier way of gatting your awn capy than by antering this month's Valley campetities.

Mosaic get full marks for donating no fewer than TEN copies of their newest ht -- and these will go to the senders of the first correct entries picked from our postbag incidentally, we must them all up when the time comes, so yours doesn't have to be the first correct entry received. If you have a 64 for a C128, lucky thing you, here's what to do for a chance of a prize



in compling our monthly chart) and complete the form with your name and foliance tick only one?

Pandoni prefers to be known by the name shown scenet letter

My three favourts current edventures ers.

3... Name....

Address

Send your entry to MOLE COMPETITION, Commodore User, Priory Court, 30-321 1Fernnodon Lane, London EC1R S&LL

WINNERS of our Clausic Adventure competition in the September issue were

I feed earney nut this information on a post-

unrequited love, and sometime subject of his naff poetry, prefers to be called A Roz C. Box

When you've made your choice, tick the appropriate letter on the form below, lot in

Dudley in West Midlands, and Daniel Bochelle from Colwon Rev. Concretalistance wizard who professes to be able to turn base metal into noid is called an alchemist.



| Beat all your high source with THE STICK's extra fast response | |
|--|--|
| THE STICK, standard 9 pin D type connector (frem 16-016) | |
| Other COMMODORE 64/126 ACCESSORIES. EXPERIMENTAL TEST BOARD (them 15:001) — exposes all data address lines and prior. | |
| wires from Cartridos Port) | |
| BK ROM BOARD SIEM 15 000 | |
| 125K ROM BOARD Hirm 15 003 | |
| EPROM BURNER (Eprom types 2732, 2764, 27128, 27258) (1901 15 004) ES436 | |
| DISC NOTCHER — makes any single sided 51° Disc wto double eiged disc | |
| - (tien 16 017) | |
| HIGH QUALITY ANTI STATIC DUST COVERS, VIC 20/084 (from 3 000) | |
| 1941 Clec Drive (Rem 3/902) | |

Ask your local dualer or direct from LIGHTWAVE Please add 21 to entur of your order for detivery vis sepalared post. ChequePG payable to

LIGHTWAVE LEISURE LTD. PO Box 23, WALLASEY, MERSEYSIDE L44 1EW Telephone: 051 838 5050

Simulation Software

card instant

| ı | f | or | CBM 6 | 4 | |
|---|--|---------------------------------------|--|--|--|
| | The second of th | · · · · · · · · · · · · · · · · · · · | The property of the property o | "他是此处以现的独立作在口前现在此后口明明铁棒铁锹口们还是比较是死们自己是死死人自己而死也在死 | 3 世界中央部域が開発性が必要があります。 3 世界中央部域が開発性があります。 3 世界中央部域が開発性があります。 3 世界中央部域が開発性があります。 3 世界中央部域が開発性があります。 4 世界中央部域が開発性があります。 5 世界中央部域が開発性があります。 5 世界中央部域が開発性があります。 5 世界中央部域が開発性があります。 5 世界中央部域が開発性があります。 5 世界中央部域が開発性があります。 6 世界中央部域が開発性があります。 7 世界中央部域が開発性がありまする。 7 世界中央部域が開発性がありまする。 7 世界中央部域が開発性がありまする。 7 世界中央のは、 7 世 |

AIRBORNE SOFTWARE SPECIALISES IN THE YERY BEST SIMULATION SOFTWARE AT REALISTIC PRICES - INCLUSIVE OF POSTAGE

FS = Flight Simulation AC = Arcade Type Simulation MR = Motor Racing: ATC = Air Treffic Control ST = Stristagic Simulation WG = Wargama grams are evallable on cassette unless shown with suffix All programs are evaluable on cassette unless shown with sufficient (D). Please specify (C) or (D) and your mechine when ordering Send your cheque/postal order to:

AIRBORNE SOFTWARE (CUII), P.O. BOX 1940 WATERRO WIS OIL

The greatest breakthrough in wrist technology since Seiko introduced quartz.



the price of a product, or even your own anniversary? Not any more. The new Seiko RC-1000 Wrist Terminal will change all that permanently Only Seiko's advanced

micro electronics technology could have produced the

RC-1000. It is in fact, a computer terminal:

miniaturised then fitted into a small stylish module to be worn on your wrist like a watch, ready to recall im-

portant data from your personal computer any time, anywhere

The RC-1000 has a 24 character screen and an extensive memory that holds up to 80 screen 'pages' of information that can be sub-divided

into 12 separate data files A detachable lead allows it

and a sophisticated menu-driven database allows you swift access to your files Now imagine what the RC-1000 could

do for you. As an 'electronic notebook', you can keep addresses, prices.

of file, ready to recall at the memory also keeps track of world time zones

- vital for international business; you can display schedule reminders that can be used

> to a year in advance (good for birthdays); or set to

repeat at the same time every week. The list of uses is as endless as your busy timetable. The computer has

revolutionised working lives Now let the RC-1000 revolutionise vour life.

Adventure International brings you
THE ULTIMATE IN GRAPHIC ADVENTURES
FOR THOSE LONG WINTER NIGHTS...









MMER STREET, BIRMINGHAM 619

ries welcome - Foreign Askations evaltable.

bess fantastic adventures at most heat stores, or from our mail order dept. 021-643/5102 (p. and p. included).

COMMODORE 64 CHART

Chart Chat

Not content with outling Barry McGuigan on the deck in last month's Screen Scene, Frank Bruno's niven all the 64 chart contenders the KO treatment - nonr Barry gets a few labs in at number five. But in the General Chart, a few nasty chaps from Melbourne's Exploding Fist stops the Eurochamp taking the General title. Other main movers include MH's Fighting Warrior, a Fist clone straight in at number four (ouch)

| | _ | | |
|-----|----|---------------------------|--------------------|
| NEW | 1 | Frank Bruno's Boxing | Elite |
| 1 | 2 | Summer Games II | Epyx/US Gold |
| _ ↑ | 3 | Sky Fax | Ariolasoft |
| 1 | 4 | Way of the Exploding Fist | Melbourne House |
| NEW | 5 | Barry McGuigan's Boxing | Activision |
| NEW | 6 | Karateka | Ariolasoft |
| 1 | 7 | Beach-Head II | Access/US Gold |
| NEW | В | Blackwyche | Ultimate |
| NEW | 9 | Now Games | Virgin |
| NEW | 10 | Wizardry | The Edge |
| | 11 | Frankie goes to Hollywood | Ocean |
| 1 | 12 | Action Biker | Mastertronic |
| 1 | 13 | Elite | Firebird |
| 1 | 14 | Kick Start | Mastertronic |
| 1 | 15 | Pit-Stop II | Epyx/US Gold |
| 1 | 16 | Finders Keepers | Mastertronic |
| NEW | 17 | Paradroid | Hewson Consultants |
| NEW | 18 | BMX Racers | Mastertronic |
| 1 | 19 | Hyper Sports | Qcean |
| NEW | 20 | Terrormolinos | Melbourne House |

GENERAL CHART

| - | 1 | Way of the Exploding Fist Melbourne House | NEW | 11 | Karateka Ariolasoft |
|-----|----|--|-----|----|---|
| 1 | 2 | Frank Bruno's Boxing Elite | NEW | 12 | Bored of the Rings Supersoft |
| NEW | 3 | Daley Thompson's Super Test Ocean | NEW | 13 | Barry McGuigan Boxing Activision |
| NEW | 4 | Fighting Warrior Melbourne House | Ţ | 14 | Finders Keepers Mastertronic |
| 1 | 5 | Now Games Virgin | 1 | 15 | Frankie goes to Hollywood Ocean |
| ţ | 6 | Summer Games II Epyx/US Gold | 1 | 16 | Hyper Sports Ocean |
| Ť | 7 | Action Biker Mastertronic | 1 | 17 | Formula-One Simulator Mastertronic |
| - | В | Sky Fox Ariolasoft | 1 | 1B | BMX Racers Mastertronic |
| NEW | 9 | Fairlight The Edge | 1 | 19 | Beach-Head I Access/US Gold |
| ţ | 10 | Beach-Head II Access/US Gold | 1 | 20 | Graham Gooch Tast Cricket Audiogenic |

At last, the big performance graphics printer with the low price



The Selkosha GP-100VC with its unique combination of high performance and low cost is designed to put the quality graphics printer within easy reach of the home user.

Built extensively for the VIC Personal Computer, its elegant styling and wide range of fluaturies make the Seikosha GP-100VC a graphics printe you simply can't afford to miss

- The Seikolsha GP-100VC features.

 Total VIC PC compatibility

 80 column doft matrix impact format

 A print speed of 50 cps

 All VIC-20 characters, symbols and graphics as standard

- Compact design, ideal for home use
 Inverse character printing
 Printing of graphics image can be repeated
 Accepts paper 41/6" to 10" wide
 Tractor feed

The Seikosha GP-100VC is available at your local computer dealer.



THE FORCE IN DISTRIBUTION

G FORCE:

SCREEN SCENE'S ΜΕΔΝ ΤΕΔΜ

Left Chris Anderson Bottom left. Ken McMehon Bottom right, Mike Pet



THE BIG CHIEF

Chris Anderson is a name that will be known to many ot you. He is the master gerner who used to edit Personal Computer Games. Remember that great mag? More recently he was the breins behind Zapp 64, Chris has now left Zapp to set up his own Amstrad Magazine - Amstrad Action. And a really great games magazine it is too.

But the really good news for 64 gamers is that Chris still has his trusty old 64 and ha will be using it every month to give you his expert opinion on the latest hot games. To buy or not to buy, that is the ques-tion, and CU's G Force will not be dodging It either - just to stay in favour with software companies.

Chris is going to be the boss of the G Force - msking sure they keap to the streight and narrow and meking sure they remain the tougheet bunch of reviewers in the business. If the G Force say a game is OK then you know it means something. And it they say it ain't -It aln't

NEW SCORING SYSTEM

Chris has already acted to make some improvements to Screen Scene. "You've gotta change that merks system", was his tirst demend — end we have. At the back of each review you will tind our new At A Glance panel. This ewerds stars out ot tive for graphics, aound, toughness, ataying powar, and

It's pretty obvious what we mean

by graphics, sound end value but toughness and staying power need a word of explanation

Good gemes need to be challenn ing. It doesn't matter what sort of geme it is - e text only advanture or an ell singing dencing ercede edventure — if it doesn't stratch you there is little incentive to keep pleving.

Staying power means how long is the novelty going to lest. Games that have staying power ere the ones that you keep going back to even it you have already pleyed your way through to the tinel screen, and even if your score is in zillions. Thera should be something there that still keeps you coming back for

MEET THE G FORCE

So thet's how we review games. Now let me introduce you to the rast of the G Force. John - igony Dungeons and

Dregone fenetic - Sutharfand is Our computer wer gemas expert. Nett mans lat ercedars loose out on war gemes. The G Force knowe you cen't do that. That's why we brought In John

As Deputy Editor of wer games magazine - White Dwarf - ha mede it his buelness to check out all the letest computer war gemee. Bettle for Midway, and Decision in the Desert John has played them sll and basten most of them. He will be bringing you his opinions on the

latest releases every month

Mike 'Hot Shote' Pettenden is a neme that will be tamillar to CU reeders. Our resident gossip columnist is a man who doesn't take no tor an answer. He has been known to trevel the length and breedth of the land (first cless) to make sure you get the reviews you went when you went them - I.e. not six months efter the geme goes on sele. Gemes-wise ha is Into sports simulations and is an expert on Summer Games, boxing games, and Melbourne's Fist.

Peter Jones Is the posh one. Went to Oxford, buys classical records, end lives in Richmond, Surrey, But don't let that smug Yuppie tace tool you. When this guy lets his hair down he likes to do it with a Commodore 64. A good tast shoot 'em up tor stertars, and a really tough arcade adventura for main course. 'Preferably one of Ultimate's' Wouldn't you just know It? Nothing but the best for this guy.

Kan McMahon is possibly the toughest member (certainly the least popular - M.P.) of the G Force, Software houses have been known to pleed with the editor not to let the dreaded KM loose on their software

But although he pulls no punches where dodgy software is concerned he is equally lavish with the praise when he likes something - arguing tor the game to be made Screen Star.



DATA RECORDER

List price £44.99 A vital add-onl The ideal way to store data-and access huge quantities



10 GREAT GAMES CASSETTES

Take a break from business with these tremendous free games including Mayhem, Treasure Island and Harbour Attack

List price £5.99 each. Total value £59.90.

COMMODORE PLUS 4 COMPUTER

* BUILT-IN 64k MEMORY

* BUILT-IN WORD PROCESSING

* BUILT-IN FILE MANAGEMENT * BUILT-IN SPREADSHEET

* BUILT-IN BUSINESS GRAPHICS

* BUILT-IN SIMPLICITY

.99



JOYSTICK T1341

List price £9.99 Purpose designed for the Plus 4

SCHWARE

Easy-to-follow User Manual and Software Guides.

UP TO £1,000 NO DEPOSIT INSTANT CREDIT

To spend instantly on a Debenhams charge card-subject to acceptance. APR 34 4% variable, reducing to direct debit

Screen Scene Screen Scene Screen Scene Scene

Orm and Chaen The Birthday Party Commodore 64 Marmillan Price: £3.95/cass

Are you esting comfortably? Hard luck, here it comes inyway Kiddy software Iron back publishers Macmillan, in the form of TV fevountes Orm and Cheen Haven't heard of them? Well you're obviously watching the

wrong programs Orm is a chummy faced little worm, Cheen, his feathered say. Anywey, It's Dim's birthday and ha'e invited all his mates eround for e real slap-up do. First, though, he has to bake a cake, but, no inquadranta Lucki, ly, good old Cheep shows up with the ahopping, but he doesn't know which of Orm's jais to put the valleus thinge in. Om shows him by alithering

signature each of the race and indicating what it about contain by means of a picture. He then tella Cheep to put, eay, the augain in the right joi. This is where union nets to work the old new isi for a couple of seconda



kiddo belta the keyboard - eny key will do - and providing they've got it night the sugar diops in

When all the jers heve been correctly identified it's perty time and Cheep has to so and round up the gueets - snail, mousa. hedgehod and mole Cheen the help of signposts. Each eim of the signpost turns red for a few seconds end when it's point ing in the direction the urchin rethe keyboard that's ell that mat

ters. When all the quests have been tracked down it's back to Orm's for more fun and gernas The best thing about Orm is that the only action required ie to prass any key at the right mement, yet it is interesting and good fun. The season lies in the good storyline and simple, but effective graphics Whilat I can't say I ensoved it peraphally. Omi will undoubtedly appeal to kids in the under six age group

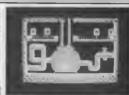
Kun McMahon

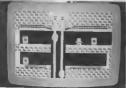
Grantice WWW Sound ** Torphoss RA Staying Fower R/A Value ++++

Topper the Copper Commodore 64 English Software Price: £8.95/cass

The first thing I noticed about the game was that the instructions are wrong Why for axample, when I presa the F1 key. does that awful din thay describe ms music not stop? Ah! It's broause F3 stops the muelc. But then which one pauses the gama? You can soon work it out.

but it's ennoying that they can't get simple things like this right Topper is what's Inevitably raferred to as a platform name All platform gemes as the seme character of some description who hops, akips, jumps, or whatever around various rooms Usually objecte ere left lying ere all sorts of horrible things which will attack you It's not uncommon for the odd lift or two to make an appearance so that you can move between levels Tepper conforms to all the





standards. What differentiates pistform games is the storyline and the final objective. Here, Topper the Copper must hunt down a murderer by finding eight clues which are locked in safes dotted around Mad Marvin's caverns. Who's Marvin? Good cuestion.

Once all eight clues have been found, a riddle must be solved in the courtroom You can then reveal the bloke wat dunnit and look forward to retrement on a cemmissioner's salary Among the suspects are the magnatively named Col Green Sworde. Serg Grey Rifle and Cuptain Scarlet Revolver Topper's not I've come across, there are only tifteen rooms for example At nine quid it's a bit averpriced for what it has to offer

Ken McMahon

| Sound Temphonso | * |
|--------------------|----|
| Staying Power | ** |
| Volue | ** |

With Christmas bearing down on us like an overfed of Now Games and some of them no doubt will This month no less than five put in an appearance so we've collected them all together for you to make up your mind for those little stocking fillers. Some of the games are getting on a bit so we've picked out comments we made about them at the time, and asked if they've stood the test of time.

Mega Compilation Commodore 64 Intercentor Price: £7 95

Tales of the Arabian Nights was a deserved top seller and one of the first progrems to carry agft speech, quite epart from the super music. A multi-element ascade extravaganza captuning the essurce of a Schahausanda tale

Platform jumping, zepping end maenie dodaina plus the etmosphere

Biatop Barney, by talented Jeson Benham, is a four part cir-

cus fendango. In our raview earlier this years we said, "I roally enjoyed this fun peckens and consider it excellent, imaginetive end eddictive " The music metches the setting and provides backing to the moreigh, highly Original big-too action Where's My Bones? is compe

tens but a bit of a yearn except to those ansaptused by tortupus obstacle courses and spritely energy sappere. This one leans heavily on simy creatures and lund demons which hound your phostly mank as he searches the scralling meze for his dis mambered skeleton. Not for me Break Fever was considered

second hest in our Breakdonemn head-to-head "Some of the routines are extremely difficult to master. The control required from the joystick is just too finnicky. On the plus olds the grephics end music set the scene excellently " Think of this offer und as a freshm

With Coverns of Sideho I menaged to cheet my wey through yet enother subter renean esecut course. The sci-fi economic plus complexity of isyout lifts this game above the elso rens. Rescuing droids could become obsessive. Worth e

Front Line is a military about available



Set your tenk loose on the enemy and obliterate abendoned fuel dumps. Targeting your shelle is a challenge, yet the opposition don't seem to have too much trouble. A brisk helping of

Can't lault this collection for Laurie Sempenn

Sparklers Special Commodere 64 Thorn FMI Price: £7.50

It comes in a chunky package yet it ren't a Yorkre Bar must be the Sparklers Special. which features four Creative Speaks gamea originally pitched at £7 95 a knock. Three of the titles were revisived when Commadore User was but a beba

Slurov heads the package, "e foragmg expedition in your local pick-your-own-creapy-crewires cavam". The bignic hogyer has stayed the course well and is just enjoyable to play today Unlike eny other game on offer get to know Slurpy! Orc Attack to a squash-'em-



down that cartainly chows its ege it is besed on the familiar Siggs acenaus and is typical of the early 64 productions in bains somewhat simplists. You hurl down rocks and make merry with the boiling oil while the at tackers batter your battlements with dustrials. "Full count and

good graphics make this on ensoveble game " That quote m now obsolete but the gema ie g.k as part of a compilation. while the effect of the big frazzle might please some

Shock Hawk is an outmo for the sophisticated zapper "Typical zap-end-dodge action with more than a veneer of refinement. There is a surge of interest with each new level as new terreto sent themselves," You fly a penetictor creft over a manknacking out enemy installetions when in etteck mode and fending off interceptors in defence made. As you progress the plens is awerded truly awasomo Waaponry and more sensitive radii. The music was borrowed from Wegner

Styer Sexcue holds no surprises but i found it somewher addictive. Utterly streightforward stuff; pick up dozy screnusts and make suite your boat doesn't collide with the rivar bank etc. Yes, you cen shoot the crocs

Overall e decent collection

Laurie Sempson

10 Commodore Computer Hits Commodore 64 Beau-Jolly Price: £9.95

Brien Jacks' Supersters simuletes the well-known TV progremme where masochists try to out-suffer each other, Unless you're on avid fan it ell becomes a drsc.

Jeff Minter produced an er cade/ edventure with Ancipital Apart from baing a shoot-up "it's very playable and keeps you emused with lots of vose crecks and zeny graphics. Could be Minter's best yet." (Evidence

of our formers to Mr Motor boss M.P.I

Senside Special is a piece of

socio-political comment (I) and it's e geme and e helf . will have to edmit this is e hellishly addretive game with superb graphics." Jinn Genie is divided into 4

chepters of Arebesn intogua Zapping and maze running ere the main ingredients in this name of only borderline interest but at least the right mood is there

Fancy a touch of stretary? Lothlonen ere the war game opecialists and have provided Special Operations Harrier Attack throws every-

thing at you. Take off from the carrier and fight your way over sas end land, unfortunetely evocative of the Falklands con flict Bomb flak betteries and shoot down fighters

Hustler ie e superb pool simula tion feetuning 6 versitions on a theme. Although thre game has been sightly improved for the C16, the 64 version is still a

Chucke Egg to a classic plan form geme complete with lifts and over 250 levels of play coasting through the eight when big Me duck brsaks free it's time for a re-

Sooce Pilot is a brilliant serial shoot-out spanning the bi-plane and space ship erae, teking in ists and heliconteis on the way Annihilate the formations to progress

Sorcerer of Cleymorque Castle is obviously a pure advanture from the real pros. Adventure

International There's some really good stuff crammed on to two tapes here



6 Commodore Computer Hits Commodore 64 Beau-Jotly Price: £6.95

impossible to fault the value offeeed by those six titles

Cadcam Warnor is a bit of a med8-production where you muscle a droud through a computar system, engaging in 30 combit all the way, in order to rectify a fault. You read to out involved to appreciate the depth of

Hybridisc Time Pilot with Moon Patrol and you and up with Bettle Through Time Theia's a constent procession of plenes ready to bombaid your bunny plua rocka, craters end jeck-in-

the-boxes to sumo over T Rex get a look in Horans of Kern is pert of a tillogy but can atend on its own quite admirably A graphical

adventure "Although the graphics are



tramendous I'm not sure there is enough of a lesting challenge to this name" we claimed in the seview of Eddie Kidd's Jump Cheffenge. You get to leap bas rels and cars and dabble with wheeles it's all a matta of belence end eccurete gaar changing.

Rocket Roper is a tough but vary reweiding jet peck eided sneich for incket fuel through the caverns of a hostile planet to learn pronto if you are to evade the various abons and sin through the leser getes A vast playing aree is provided, giving

that feeling of exploring Allow yourself the luxury of 99 leves to tackle Ceve Fighter Precision Isaping from ledge to ledge, ropa climbing alien shooting and generally aqueezing through nerrow gaps make up the gemepley. This is a very well designed platform game end not just another exploitation of the Jamilar style

collection

though.

In all another very reasonable

Leurie Sempson

They Sold A Million Commodore 64 Hitsville

Price: £9.95/case £12 95/disk

The label name belies the joint marketing coup of four of the big boys attempting to squeeze the last drops out of then mage titles. The bills, they reckon - if you add then combined seles ecross the machines - is the honast truth. Which meens to My way of thinking they're being Owners possess one of these up thair collection already

Whatever reservations (have ebout the peckege, you can't lault its components Beach. Head, Daley Thompson's Decathion, Jet Sei Willy and Staff of Karnuth all on one tape is pretty impressive Each in its own way in a cleasur in its field

Reach Head This har to be the godfether of shoot 'em ups It may not be the best, thet'e a metter of teste, but it certainly snawned enough copies. I atili think it's great fun. Definitely e clease and far auperior to its

Diriginal grading December

Jet Set Welly: One of the pletform games for the 64. Jump end lesp your way through the mansion to clear up the postparty mess. Up there with the hest like Manur Afraer and Hunch will save you many wasted hours end unnecessary strem on your

STORY WHEN STORY

The dame that bloke a thousand iovsticka Waggle your way through the ten decathion disciplines & In Treck and Field Though suspessed by this yeer's sports sams the 1500 metres is still as bone crushingly, sweat pour ingly exhausting

first 64 geme, and the first in the Arthur Pendregon sames Destroy the staff hidden under the ancient obelisk to breek the evil spell of Kaineth Agein enother feet of sorts and the beginning of a formula of hits for Ultimate Worth having if you

possess either Bleckwyche end/as Entombed No complaints then about this little bag of goodies. You can expect to see it enter the charts faster then a hacker businessing sonal eccount. A trifle ursedy of the software houses I feel

A No Personnen

Henry's House . . . and friendsl

Commodore 64 English Software Price 66 95

Three excede and one adventure lumped togethar for the pince of one normal tape

Henry's House is indeed Buck House, decorated with plush graphics and plenty of detail and so much polous it virtually dune off the screen. There are sight rooms of pure platform-hopping tribulations, with a complement of tokens to gether in before the next screen is accessed Imeginative hezerds block eny sasy pessage but you won't mind es

they edd to the visual

Not relying on pictonel content for its appeal. Jar-Boot Jack is a 'level' game spread over ten acreens in which the playar finely tunes the degree of difficulty The idee is to skirtle mound mapping up musical notes, taking fuel pods for your jet boots. evoiding fracturing your skull on stelectites and skirting the three

forms of monster. The fleore skip end slide ebout, edding to your problems. Could become hebit. Stranded is a graphic adventue that lands you with the unenviable task of escaping from a planet completely foreign to you Using you wits, true gut and the computer keyboard, your ultimate aim in to return to Earth

As a apacial hint English Software urgss the player to make maps (te very much!). Come in John Ransley.

hand.

Back to safer ground with Neptune's Daughters which is cittamly deted. Probably the only place for it is in a collection like this where it creates a bit of a diversion. Virtuelly the only enjoyment is seeing just how sick you can become. You sken through three preliminery caverne, blasting e wey through jelly hah end werding off octopuses, which multiply with each level. Covern four has the diver eliminating a quote of empaba



This is the seesonal sequal to Summer Games II we've all been waiting for. If you're tired of pulling on the shorts end training shoes then this is the sports simulation for you. It's après ski time out on the piste with your selopettes firmly zipped ebout you.

That said, what we have here is the seasonal equivalent of Summer Gemes II. Like its predecessor it stends up as a superior sports simulation which necessitetes the use of skill end good sense rether than the ability to rem your joystick from side to side

As Summer Gemes II gives you the choice of nations and the chance to compete egainst someone alse, so it is with Winter Games. World records and the opportunity to prectice events may also be selected.







Winter Games Commodore 64 Envx/US Gold Price: £9.95/cass £12 95 diek

SKI JUMP: This is the one that looks aulcidel when you see it on telly. Hit the fire button to send your skier cereering down the icy slope end fire egain to make him teke off. If you forget, he fells off the end. This is fun so make him do it a few times anyway. When you're bored with thet, make him jump and struggle to control him in the eir as his skis wohble and his nose comes to rest on their ends. The fester you correct his problems the further he goes and the more points he gets for style.

RIATHLON: This is the cross-country killer dominated by Finns and Russian anow troops. Strep on your skis and sling e rifle round your shoulder end yomp ecross the snow drifts. Get to know the terrein here You go across two flat areas, down a hill, and up a hrll. Don't weggle your joystick madly or you'll mark time on the spot. When you come to the tergets your heart best (indicated on the bottom right of the screen by a swalling red cupid symbol) causes the sights to wobble. Timing is essential to hit the targets. If you miss you incur time penelties. Don't waste time either, though,





HOT DOG AERIALS. This is the kind of sport that gets ten minutes as a diversion on World of Sport on a Seturday. Basically, you do serial ecrobatics with a pair of skirs on your lags. By moving your joystick you can which you open your legs in mid-alr!), Back Scratch (you kick yourself in the back of the neck - or something like thet!, Back Flip, Forward Flip, Swan and Mule Kick You are subsequently marked out of ten for your afforts. The more difficult the menosuvre the higher you score. To score streight tens combine two moves, a difficult one

THE PISTE!



BOBSLED: This is the event where you hurtle down the ice like a bullet. Hit the fire button and you're away Twenty-two seconds later (approximately) you'll have finished. It's not quite that easy because you have to slem the joystick herd over to steer egainst the bends. If you don't, the sled overturns and you'll be eating hospital food for months. For a really feet time keep the joystick pushed forward, pulling back slowe you right down.

FIGURE SKATING: This is the one-minute ice routine in which you have to complete an exercise of seven compulsory movements. You control a graceful and well built ledy skater end put her through her progrem to some gentle music. Your dexterity with the joystick will lergely dictete whether the less flies through the err as if she's been thrown by Christopher Torvill or falls on her beckside ee if she's been body-checked by Big Daddy. The trick here is to realise that she will only perform some movements if she's pointing in the right direction direction are necessary to ensure that she doesn't get a very cold, er, reception.

FREE SKATING: This involves the same moves as the figure sketing, but you must put your own routine together. A two-minute display of choreographed entirtry Is what is required. The music is not Bolero. Try to get in at least three of each of the difficult moves like Triple Axel and Double Lutz. Just running through them, though, won't get you sixes acrose the board

SPEED SKATING: This is a simple race against the machine or your apparent. Probably the closest thing to the boat and bicycle racing of Summer Gernes II Again, you need to bear the simulation idea in your head. Waggling the joystick furiously will simply cause him to twitch like a dypsomaniac's evebrows. A measured

Winter Games la everything you might expect it to be if you've seen a copy of Summer Genes H. The namenley good as the levelin event is better than most eporte either but that's just a perelmulations could ever hope to be The grephics, because of the alpine locations, look even better then its binh season predecessor. My only grumble is the inclusion of becomes boring and repetitive. Why not a sielom event? Or the downhill. which would have been

much more exciting then try ing to do a John Curry There's nothing quite es sonel fevourite. If the mega buck grebbing compiletions don't grab the Christmes number one spot this must. Mike Pettenden

Smand *** Toyohness ****



RUN FOR GOLD

The ultimate shallenge in athletics simulations. Test skills of strategy and control.

"This definitely has to be the most realistic-liabling running game ever...The graphics are huge, beautifully animated..."

359

SOMALIA LASA

tte £7.93 mmodore \$4, Am

Rally Driver

must be the best right ca type game.

type game. CRASH, February /85

Car rally needing skilful driving and map-reading you choose the



Spectrum £9.95
Commodore 64/Amstrad £7.95

"milli di alaniki atia "al'anat ying biling di dinang mak ata da 492

Previews

The Winise in the picture is about to commence a heroic guest to resour the mummfled princips. This, As he wide through the desert, past paint ties and privarilids, he is attacked by all manns of nates including litard men and tiges. Asmed with his tusty sword her must defeat all comes of he is to rescue he beautiful planess sword her must less me company type gene from the same company type gene from the same company.





It's all happening in 3D ngain if the latest batch of new releases as anything to go by Melbourie House save finally released their convesions have finally released their convesions the 64. This will be notified by Domais it's Cade Name Mart II (biottom – another Spectrum conversion, graphics and tons of strateny Will Ethir? Chies. Anderson bring you e special two-page head to heed in next month's Commondier Science.

SEPTEMBER COMPETITION RESULTS

Supamen Comp. Conguists to Paul Oldmardow of Sheppey, Kent. The idea wasn't new (Supamen appeal ound the darth and makes time go backwards atc) but the story was well told Richard Walker (not as Yunny) and Andy Clarke (a little sixque) had the same die but just missed out on the orize.

Summe Course Course Nearly 1 of you got the une decathlon describes right. Lot he last 25 to we noged of the game were Chistophen Harrilly of Dowestay, Sand-Howestin of Brandel, Owen Chistophen Harrilly of Dowestay, Sand-Howestin of Brandel, Owen Dowel, Nearly Larrilly 1 of Security 1 of Security 1 of Security 1 of London, They have 1 of Security 1 of London, They Farry 1 of London, They I of Security 1 of London, They I of London, Th



Since the dawn of the computer age the prices of home computers have been steadily falling.

But, remarkably, the price of a genuine, full-blooded disk drive has remained almost constant

Constantly expensive.

You'll be lucky to pick up a decent one for less than £200 in the shops.

Now, however, you can have one delivered to your doorstep for only £119.95 (including VAT and postage and packing)

The new Triton Quick Disk from Radofin

Its specifications are every bit the equal of a £200 disk drive, as a glance at our card above will confirm.

Quick Disk uses the very latest technology to store up to 100K on high quality Hitachi Maxell double-sided 2.8" disks

Its disk operating system (DQS) uses standard commands so it is truly easy to use, as any computer novice will be glad to hear.

While the price will be compatible with most wallets, there is a Tirton Quick Disk compatible with most computers – Commodore 64, Spectrum (16K, 48K and Spectrum plus), Aquarius, Dragon 64 and all MSX Systems.

And, naturally, included is an interface box plus all connecting cables and instructions.

In short, what we deliver is a complete, genuine disk drive. Not a tape or wafer in sight, All for only £119.95.

And when it comes to speed of loading, the Triton Ouick Disk more than lives up to its name.



FROM 0 TO READY IN 7 SECONDS.

To put the Triton Quick Drive through its paces we used an ordinary computer game – Jet Set Willy.

From tape it took 170 seconds to load when loaded from the Tinton Outch Disk it took a mere seven seconds. That is 163 seconds less than the tape and certainly as quick as most disk drives on the market.





impressed by the Quick Disk Not only is it very quick, and both smaller and neater than other drives, but it's easier to use as well...the Ouick Drive performed faultiessly.

It's easy to use and at around £120 is probably the best buy for the first time user"

High praise indeed for any disk drive

For one costing £80 less than any comparable piece of equipment it's exceptional.

HOW TO BUY YOUR TRITON OUICK DISK.

As yet you won't find the Triton Disk Drive in any shop. You can only lay your hands on one by filling in the coupon below

Send it, along with a cheque or P/O for £119.95 to Radofin Electronics (UK) Ltd. Hvde House, The Hvde, London NW9 6LG. (Postage free in the UK, Add additional postage for outside the UK.)

In the unlikely event of you being in any way dissatisfied, simply return the disk drive and we'll happily return your money.

Proof indeed that the Triton has all the capabilities of its more expensive rivals. AS TEST DRIVEN BY THE EXPERTS.

New it may be, but the Triton Quick Disk is already receiving rave reviews in the computer press. For example, in a recent Home Computing Weekly article it picked up their much coveted "Flipped" award.

As their journalist said "... I am very

rriton

| 1 | Please send me a Triton Quick Di or £11995 My computer is a |
|--------|--|
| | Please include 28" Diskettes |
| | I enclose a cheque/postal order f |
| 72. 10 | otel Make cheques payable to Redofin Electronics (UK) Ltd., and post to us at Hyde House, The Hyd Jondon NW9 6LG 7el 01-205 0044 |
| P | lame |
| j | Address |
| _ | |
| | |
| 1 | el No |
| | Please allow 28 days for delivery |



reen Scene Screen Scene Screen Scene

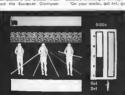
Run For Gold Commodore 64 Hill MacGibbon Price: £7 95/eass

Compared to watching point dry playing the Spectrum couversign comes a close second You take the part of an inax-

persuced and unknown middle distance mount You must heet the field in small local aventa before graduating to the major compensions like Civetal Palace and the European Championehme. The final goal is to congets su the Olympic Gemas and win the gold medal. To all intents and purposes each event is axactly the same, other then at the more prestigious events the competition runs a bit faster.

The screen is divided into two windows. The farnts right hand box shows your view of the track and surrounding stadium Your men is depicted in the cantre of the screen from the reer. The unht-hand window contains a speed and energy meter, as well as a digital indication of the dietence remaining to the tane





swys the starter. With a little im-BY THE CAN LIKE IN THE have included a gun. As it is, the only sound is the dull thud of your runner's feet on the asphalt and this is much too slow. You have to adjust your runner's spand to set the required tectics for the race. The faster he goes, the more energy he uses, so if you go flat out you'll end up hit-The Wall before you reach the home straight

The only praintworthy thing about the program is the animotion. The slow motion rear view of the runners is stunningly realistic and beautiful to watch

which, unfortunately, is about all

for some inscrutable reason, you be out and buy this, I have some advice Go for the 1500 metre option first. If you manage to complete the race without failing asleep, then you only half as bonno

Ken McMahon

+++ Sound Taughness *** Staying Power

Red Arrows Commodore 64 Retebase Software Price: £8.95/cass

The bad news is that Red Arrows is yet another flight simulator for the 64 By my reckoning that makes at least a dozen now, nobably more. The good news is that it at least has au element of ti tuode vhleninio

As you've probably guessed, you are cest as one of the Red Armws formation flying team, RED 8 to be pracise. Your job ie to keep up with other members

of the team as they perform cun usug stuuts at death dafying

There are two parts to the program. In Red Arrows proper, you complete a full display with the team, Red Leader calls the shote. hie radio instructions small along the hottom of your instrument pauel Ithie would have been bulliant with sound, shama). The instruments are much the earne An speed indicator, rate of climb, thust, artificial holizon, atc. The view from the cockpit is pretty and if a little chunky on the graphics

The aircreft itsalf, e British



Aerpanace Hawk, is a pretty tough bird to hendle Iflying talk, that! So if the idea of Illung wingto to wingto with the rest of the boys makes you reach for the brown trousers, you'll be glad to hear that there's a proc

Training mode allows you to fly around on your own to get the hang of the controls. This way et least the only person you can kill ie yourself. Quoe you've got the hand of that (it takes a while) you can practice individual meupeuvies with the cheps. To make control or service to will control either the thrust or

steering, but not both as there

wouldn't be enything for you to Red Arrows in a lot more difficult than some other flight

simulators I've played. The plane is more difficult to control and the object of the game, rether than to provide fast action, is to fly difficult maupeuvree to within frue tolerances. It should appeal to these solitary fliais looking for ebit of company - over sud out. Ken McMehon

Graphics *** **





£79.99. All i



Now you can buy a Communications Modem for your 64 or 128 direct from Commodore at an amazing price.

Just £79.99.

A small price to pay when you consider what the Modern gives you.

For starters there's everything on the following list:

You can link up with other 64 or 128 owners – swap games, information, send messages, receive replies or just chat.

Download free software, including over 50 educational packages.



Buy the latest software from leading companies 1 at special prices.

Meet friends and foes in MUD the multi-user adventure game.

Access giant data banks like Prestel, Micronet, and Blaise

Receive your first year's basic subscription to Compunet absolutely free. Worth £30.00

Free access to Compunet between 6.00pm and 8.00am. And all weekend.

Cheap to use. Most people's calls will be charged at local rates -only 40p per hour.

Easy to install - plugs straight into a new B.T socket.

All this, plus much more will be yours when you take advantage of this "£79.99. All in" special offer.

If you want to get more out of your 64, or 128 by spending less on a modem, please complete the coupon and send to:



Commodore Communications Modern, 1 Hunters Road Welden Corbs,

| Please rus to-Compu | h me a Commodore Modern with a FREE subscripti set. | Df |
|------------------------|--|----|
| post, pack | ie a cheque/postal order for £84.94 to include ing and insurance (al.£4.95). sue payeble lo Softpost | |
| | debit my Visa/Access card | |
| Visa no | | |
| Name (bloc | k capitals please) | |
| Sgut - | | |
| Address | | |

Allow 28 days for delivery. Registration subject to Compuner terms and conditions Send to Commodore Communications Modern, 1 Hunters Road, Weldon Corby Northants NN17 IQX

"A new style BT social is required. Presiet and Micronel require additional subscriber charges. Possiel is a registered trademark of British Telecom Micronel is a regis



WHO ARE YOU? WHERE ARE YOU? WHAT ARE YOU GOING TO DO?



ACTIVISIO

An Intriguing text graphic adventure!

You remember nothing.
You're on a deserted beach. But which beach?

You're going to find your lost identity no matter what price you have to pay.

Your perilous journey of discovery takes you around the world as it leads you ever closer
to the truth should your wifeshor post.

to the truth about your missing past. With a little help from the mysterious Condor, you move closer to the faceless betrayer who left you to perish.

"... super 8 graphics, in fact the best I've seen" Home Computing Will

TM* Balblazer is a Indemant of Authorities.

Commission CSA 125 committee and Follow Association of Association (NEC 2015 Association Commission Commission

i illinite.

Screen Scene Screen Scene Screen Scene S

Castles of Doctor Creep Commodore 64 Ariolasoft

Ariolasoft Price: £9.95/cass

The graphics and sound of this little number have as it his close of a 1982 vision of Space Panic Reelly primater state. But don't be mated by tempted by the mated by Cheep falls into that select class of trides (reclaimed both Rumer, Boulder Dash, Bourry Boby where the gamepias stell more than compensates for uninspaining first impassional initiative the name deal countries.

Initially the game idea sound tediously Tamilia. You diebolically animated characte is trapped in one of Dt Greep' 13 castles and must escape b picking his way carefully through a number of hisself fillad screens collecting kays to open doors and avoiding dangers such as mentmies, Frankensteins and tay guths. Other not very original game features include conveyor bulls, lightning machines lete poil ors, letp doors, poles to side doesn and features.

What makes the gene of lened is that most of these features have a corresponding control to the second the second to the second



Frankensteine down a pole on thareby activate an otherwis inaccessible conveyor switch

Another point which helps make the gene a real bars has no as the you can I simple solve the histories by the solve the solve

But perhaps the best point all as that the game can be play simultaneously by two play titive joysticks required — the can either race each other for the structure of the struc

for an urba fast escape time in deed for some of the creates is g number 2) cooperation is about the only way of avoiding reason your harrout

installated to determine cash containing 10 20 different cash containing 10 20 different comme 200 screens Unfortunate by these contained to the contained to memory at once adult you must load castles individually like side two of the castles individually like side two of the castles in the castles of the

Graphics &
Sound &
Treghness **

Batalyx Commodore 64 Ariolasoft Price: £9.95/cass £12.95/disk

A game called Batalyx could only have been withten by a bloke called Jeff Mintor Yes, the guru of zep strikes again

Bereiyx is actually six subgames inlied into one if you get bored you can leave one game

You don't have any fees as such, but a faed amount of energy. This depletes wherever you do sometime pares or any of the games. The object is to get as high a sore as possible. Game 1. You control an one Which you push your stok left the orb fires left but moves inplit. Shoot the most imaginative nistles int computer garining including harply beastes, parts of boar, and bearded acrown.



tant Camels. Blest the dieaded dismedarias to bits with your fights ships Hyperspace to borus levels Superb graphics Came 3. So way out I consider?

aven begin to discusse it.

Glame 4. Anoptical without the
rooms. Discusy did give; you
before they become away and
make holes in the floor and cell
of the become a property of the property
best to tail if you in nor carful. Year
horry beasty fires floors, pure
make this farry roomet, can
death asymp "it's your round".
Game 5. More whickly staff.
O'bb. fly around the screen
devise containing colorant gias
turns. All this is accompanied by
an ommoss Chirch origin sould.

vou cen give youssell a frigian by causing the pattern to white past the window As well a chenging the tone of the not this causes the olds to chang their pattern of movement. Yo must get all the patterns what as give the right direction to all the olds.

ie osos isme 6. Not so much a gamo ac

pla Psychodate Amazing staff If you've got nothing also Jeff Minter's make sale you g this it a brilliant

Ken McMahon

Graphict ***
Soutel ***
Tangbooss ***
Stayong Pawas ***





WHO WOULD YOU USE THE HEIMLICH MANOEUVRE ON?

C16 - Plus 4 - Vic 20 + 16K All £7 95

Assume control of this unique fighting machine. Take care

that you practise take off end

landing thoroughly before you emberk on a combet mission to seek end destroy the enemy aircraft. Use your reder to locate the cerrier end land in worsening weather conditions as you progress through the renks. CRM64 Version



C16 + 16K Plus 4 f 9.95 6+16K cass+16K Expension

Package £34.95







TOM THUMB

Hidden within the torturous passages in the depths of six Egyptian labyrinths lies buried the Pheraoh's treesure. Tom's journey is perilous and requires atrategy end skill.





Tom Thumb is a geme with 5 skill levels that cen be enjoyed by up to 4 nlavers.

C16, Vic 20 + 16K, CBM 64 £6.95





An outstanding multi-screan game with superb animation. Tha mission is simple - rescue

the sailore end other captives of evil King Neptune. The treasures of the lost city of Atlantis ere incalculable but be wary of the sherks, crabs, sea horses atc. lurking in the murky waters,

C16, CBM 64, Amstrad & Spectrum £6.95



rley, Surrey RHS 7JY 029 378 6083 29, West Hill, Dertford, Kent 0322-91649/92518/92513 24 Hour Credit Card Service 029 375 6063 Psyment by Cheque, P.O., Visa or Access











Screen Scene Screen Scene Screen Scene

Doughhay Commodore 64 US Gold Price: £9.95/cass £12.95/disk

What a corker in case you thought a doughboy was a union gingerbreed man, let ma inform you that the word also refers to a US infantly soldier in this name. the poor GI has been given the job of rescuing the President.

who is being held in a POW came behind enemy lines Certain Presidents you may praler not to rescue, of course but unfortunately this one doesn't have a name so we

must give him the brinalit of the There are six scieens of in Creasing Lieudishness, but all of

DONEHBOA

them are beautifully desconed and last our On the last you must move your scutting liquin priors the treaches collection the supplies needed for the mission TNT, Juses, mines, wire cutters and ladders. To award to coming rackets (which heme in on you muste venewalvi and enamy soldiers, it's a smart idea to hide in the treaches. If you get through, collect a key in the bottom right-hand corner of the

sciaen, and move on to the next Here there is a system of radar Towers everlopking several canals Since these can assist become your watery grave you must lind your wey across not by rubber dingly but by blowing up the towers thence the TNT). which always collapse obligately account the personal austronomy

enabling you to use them as bridges Belore long you realise that you need the luses here too.



Ingenious and emusing use has been made of the fire button to allow the player to ley his TNT and then pay out a length of Tuse belove lighting it. Failure to get I as enough away results in a pre mature evolution and a nautuheadache in the moining loi your

Screen 3's hezerds are marauding tenks, and your ob jective is to cut holes in the

lences and blow up a series of oil Those tanks really turn nasty in Scieen 4, whilst in 5 you must break into the POW camp using

your ladders. If by some fluke for possibly by shear teeth gritting persistence) you make it to Screen 6, the President must be heuled out of his jail and guided out of the camp Openhany lonks neet and

nlaws looksally it is also by lar the most absorbing game I've

looked at this month. The inv stick controlled liquie is nice chunky and irraponds smartly to one's lienzed commands. The idea so't nuomality stell, but it is good to see it perfected. Hard to led any cuticisms, really, so I II end with a useful tip try the two-player ontron when light attempting the game, but without en actual opponent. There is strill a certain amount of Ilak Ilyang about, but les less than normal It enables you to get the hend of layang those fuses without blow-

ing voursell up the whole time. and to liquie out how to use the wire cuttars. Great luni

Peter Jones

Graphics *** Smud *** Touchurs *** Staying Pown **** Value ****

Super Zaxxon Commodere 64 IIS Gold Price: £9.95/cass £12.95/disk

Many of you will no doubt recall the revered - and indeed successful - Zaxxon Here, therefore, es surely as night follows day, comes the sequel, a shoot 'em up in the classic style. Sequels are the things now deve, as Sylvester Stallone has recently proved. Why didn t they call it Rambo - Second Blood I

that's what I want to know? In Super Zaxxon the idea is to guide your lighter first over the delanded city and then through a tunnel The whole scenerio scrolls smoothly in regmetric projection, i.e. a 3D 45 decises angle, and your lighter casts a sinister black shadow beneath you, thus helping you judge the

quiking victims to smithereeps Ol course, you must also avoid being disintegrated by a variety el delensave loices, including a menecing horde of out of control vecuum cleaners. Irrad aggs and iced tollies. The worst problem, however is a sames of electric fances which you can either liv over (sasy) or under (well nigh

Impers on the invetick) If you can blast the iced folias city, there's a beefy score to be had before you carry on to do bettle with the denizens of the tunnel. The vecuum disances ere a cinch, they don't lise back - at





the cesessing fixed eggs must be avoided et all costs - unless vou want to linish up with egg on your Lace (so to speak)

In carrying out this dangerous and destructive massion couldn't help being reminded of trying to drive against the How of sush hour trellic over Waterloo Bridge and the Aldwych under-

This could be a dangerous weakness if you take the view harmless lolk who don't all deserve to die II this is what it s in the 21st century, I think I'll stey at home. You have been

Peter Jones

| Graphics | **** |
|---------------|------|
| Sound | ** |
| Taughness | *** |
| Steving Power | ** |

Screen Scene Screen Scene Screen Scene Sa

Stealth Commodore 64 Arinlasoft Price: £9.95/cass

A last moving 3D shoot em up Stealth's ancestry is that of the Buck Rogers games you have a cameraleve view just behind and above the cialt you control as it races ferward through hostile territory bustline with

The terrain flashing past you at high speed is suitably black lift in distinct), the only real feature of interest being a dark Tower in the distance, whose height gradually mission is to destroy this tower since it contains a particularly avil set of people who, surpuse surprise, are planning nothing less than the destruction of

Only you and your Steelth Starfighter can save mankind from this late and that s had tower's delences are pretty They consist of the

Bunkers fixed artiflery sites

· Tanks slow moving but easy

4rrcraft two different tunes

· Ruder towers on the higher levels you have to shoot every one of these or they trigger a bobby dangerous heat seeking

 Voicunces active ones spew molten lava at you

Being hit by anamy fire will deplets your energy, although vou can restore this by passing through environ lields. However, collision with an enemy casft. stank losas you one of your three

levetek control allows you to accelerate and slow down as well as move left and right sadly, you have no control over altituda. A gauge at the bottom distance you have remaining to





saleh the tower Ones you're near, fire like crazy and watch it topple. Then try a higher difficulty lovel - those are five in all The nicest thing to be said about the action in Stealth is that

it's extremely last But this causes numblems, enemins flash past so quickly you don't reitly have time to see what they look like, let alone respond in an intelligent way. So there's not much strategy or thinking, just guick shooting and dodging

For ma, this came become bor and pratty muckly. With nothing to get particularly excited about on the sound or graphics front erther, I lound Stealth just a little

Staying Power **

Vales

Chus Anderson Graphics *** Seens *** Terofiness *** ++



Tandata's complete communications package for the Commodore 64 includes a Im 110 smart auto-dial modem and matchine Micropack complete with software cable and instruction manual

In short, everything you need to Ium your 64 into an instant powerful viewdata Terminal You can access charge shep by post and carry out home banking You can even send and receive messages and telexes And Tandata's special Christmas

INSTANT AUTO-DIA

Pluz the ROM cartndge mto your CBM 64. connect it to the Tim 110 modern and you're ready to go!

Karateka Commodore 64 Arinlasoft Price: £9.95/cass

First impressions of this came are awa inspiring. A superb musical acute to accompany scioling on scieen matructions. Ioliowed latter some more loading) by a magnificently animated karate waren fibat's you by the way! climbing onto the lon of a chill in disparation

for deadly combat He moves lowered shealthdu and oh-so smoothly. To compen sate for his advance. The scenery scrolls backwerds for two diflaient speeds to perspective sake) Suddenly an enemy war Inor appears on screen and liefs and leet begin to Ity in spec

Karateka is the letest program to capitalise on the current fad successfully exploited by Exploding Fist, the program with which this is most likely to be phere and story-line. You're on a mission to reache Physices Marriso from the palace of the evil Is sulfight the palace quards. you're also trying to make progress further and further into the

The story line is strongilhened by Techniques lifted from the onema. Alter vov've killed vour Inst quaid. The pictura cuts to a shot all Akuna sendina put se inforcements. Then if cuts back to you as you run lowards the galace then back to one of the

advancing quarde. What is less convercing in the lewer moves than in First most sex main ones (three punches and thise kicks of different hambial

Also, the action is much slower - The computer takes quite a while to execute each Move with the result that you often appear to lack duect contiol over your chauerter Moss frustrating still is the lack of a

two player option It's just you One good leafure is that hits are clearly shown on-screen by means of cartoon-type flashes Also on screen are lines of as



rows revealing the remaining strength of you and your good nent. Whoever runs out of airows first dies, and that brings ms to the worst leafure of Karateka Every time you die you have to raiged the game's start position from eide Iwo of the cassalle - a good two minutes." wall Analesoft point out this is also a disincentive against him ing the game in the first place

All in all, a game which is Hewed, but which nonetheless indudes some classy programming and is different enquel from Fist to be worth checking out Chris Anderson

| Grephics | ***** |
|---------------|-------|
| Strunt | **** |
| Teoghness | *** |
| Steying Power | *** |
| Value | **** |

COMMUNICATIONS YOUR 64.

Autodial up to 8 telephone numbers with a single few Stoke - The modern will automatically loss on to Predel

progress of the built in V23 (1200: 75 bps) smart COMPLETE SOFTWARE

FEATURES

eful

wes.

ΑI

to go

85

The software instantly available when you · switch on the cartridge covers virtually all your communications requirements. Full colour Prestel, or conventional scrolling ferminal, with its own editor for easy off line message preparation. Pages and data can downloades

It's ideal for Prestel Micronet 800 Viewlay 258 many Bulletim Boards.

FULL SUPPORT

A telephone Help Disk gives you full support and an instellation service is available for business.

To order your sample Tandata communications 64 at To find out more simple complete the compon

Tandata

Tandata Marketing Limited

Albert Road North MALVERN Worrs WR14 2TL Telephone 06845 68421 Telex 337617 Tandat G Prest el*799# Telecom Gold 81 TANOOI

Expiry Date

Tandata Marketing Limited Albert Road! Malvern Words WR14 2TI

Screen Scene Screen Scene Screen Scene

Paradroid Commodore 64 Hewenn Concultante Price: £7 95/race

Paradraid confirms the emer gener of Hewson's Andrew Braybrook as one of Batain's most exciting 64 programmers His previous game, Gobbly's Day Out was needed with entertoin. ing, original gemeplay and this one, although extremely dil lecent, is just as classy

The action takes place on fraighter', a craft made of 20 dil-Letent decks each viewed from above through a smoothscrolling window. The total play ing area is apparently equivalent

to some 400 screens.

Dane

You have control (psystick on-N) over a droad which has been beamed onto the ship los the delichtly number of eliminating the craft's entire robot crew they've mutined so they deserve

Part of the came samply involves girding around the decks blesting everything that moves. Even if that ware all it wouldn't he had because the control leels sunesb - super smooth with a one vertial effect - and the graphica, elthough lairly simple, have a cool, modern look to them. The sound, too, is all retive and atmospheric.

But thorn a much move. The enemy jobots are las more nowardul than your droid, and in olds) to make any lest progress you have to lungles control to one of these Achieving this is a separate game in its own light

Laradonal timit type oos - influence desice Shin & Dannice id Deck : revelop Glert : eres

First you must ram the jobot you want to translet to The screen thun switches to a pleasing little strategy game cum shoot out, in which you must try to gain control of the robot's circuitry by sending pulses down carefully selected wares

If you succeed, you have control over the new tobat, compiete with its superior lits-power and can continue until energy nans low and you need to upcunde acaro

Once of the sebate on one deck have been wiped out you can move to another using one of the many lifts which interlink them The types of robot vary throughout the ahro - there are 24 dillerent categories, some much lester and deadlest than

others. You can get information on any less powerful then the one you're controlling by access ing the Droid Data Library visi one

of the many deck consoles. Another example of the procuam's imaginative attention to detail is the way yout sneigy is revealed - not by the usual gauga or counter, but by the speed at which your robot jointes. All in all on addictive shoot-em up, which looks and

leals superb

Chris Anderson

Support *** Sound *** Toughtess *** Stavius Power **** Value ++++

Lorenteud

Schizofrenia Commodore 64 Onicksilva Price: £7.99/cass

Alphonsn T Nurd works as a cleaner in the laboratory of Boaden Schtunk (sounds like our deputy editori. Bogdan's something of a scientific genius and hes devised a method of solution people in two A bit like leckyl and Hyde, but without the inconvenience of both being stuck

Nurd, bring the meddling type has managed to give himself the Schtuck treatment and has created Nurd 2 - his after ego personfied - who sets about creating havoc in the lab. Nurd 1 realising that Bogdan isn't going to be too happy about this, must, with your help, try to recombine with his double before he does too much damage

There are live areas in the lab I spent a good two hours getting through the list so let's steri there. All you have to do is open



the door to area two. Simple? I'm alread not. First you have to climb the stems and set the scora control and times swatches. Then there are four doorbolts to be un done belove pulling the selesse laver. This would be dead easy was it not los Nisid 2 who beetles amund undoing all your hard work. Whilst you're busy undoing the bolts he's resetting the swetches So you Ily up the stairs to the switches and he shoves the bolts back in It's like trying to lift a bucket with a hole

If you manage to open the doors without daveloping mental problems of your own, you're configured with similarly frustreting tasks in the following



sections Finelly, area leve gives you the chance to merge the Nurds in the recombination

Schoo is an injusatingly eddic twe game and should provide a challange for even the most accomplished pleyers. One cuticism. Nutd must be manipulated with tedious accusacy. One pixel either way and he misses bolts and buttons or worse, Islls to his deeth. A bit more leaway would have made In a smoother flowing and failer

Ken McMahon

Graphics *** Sound ** Toughuess *** Stayong Pawer *** Value ***



रहंडारेट

NEW SUPER SILVER FOR COMMODORE

CHIMERA WILLOW PATTERN

THUNDERBIRDS

316 CHICKIN CHASE 318 MICROCOSM

Screen Scene Screen Scene Screen Scene

Decision in the Desert MicroproselUS Gold Price: £9.95/cass £1/1 QEldiek

Decision in the Desart allows the player to light desert battles of Would Way II in 'accelerated rest

Like so meny of the recent warnames Decision sull as Irom e comple of basic faults. Despite the extensive background informater made available to the player in the rules bookint, poless. you are a factical historian, you

the screen. The 'overview' optype does little to improve the plevers perception of where his loress are and what he should be

Graphics wise, the name of lers two dillerent types of science display - icons and sym bols. The scon option showe last ly well designed pictures of tanks, trucks, intentivmen and tactical signs used in 'stal wargemen of this type - which means that you must be either very lamsior with the system, or



every other move

pisyer's forces is simple. A cert and placed over the december unit (there is a joystick option) displays Higgly name and type of the not 14th Aimound Division for example), the unit's strangth and linno experience loval level of ellectiveness as a percentage. The next level down lets a table of options los that unst - Move. Attack, Delend, Reserve and the prompts are simple and easy to understant Bot, what makes the pente sently on the market is that it is tene the players etc giving in out their profess, appealing combat and taking losses means that a von'te playing enamed the computer, you are westing for the apponent to move The speed of the "ac celevated real type" can be





Wizardry Commodore 64 The Edge Price: £9.95/cass

Wizardy is Steven Chepman's long awaited follow-up to Que Vagis. It's another micede edvanture of absolutely massive proportions, gneranteed to blow some people's minds, while but ang others to death I think i belong in the latmet category

The last these that atekes you about the game is that the graphics look mighty Ismaler not so much like Quo Vadis es Ultimate's Staff of Karnath Mind yon, these were well worth copyling. The endless paying stoned ligges and bricked walls punctuated by the occasional lend a sustably same atmosphere

More unusual is the use made of background music. This changes each time you enter a new room according to the monster contained in it. Frankly, it not on my nerves efter e bit. You take the part of the rather bonng-looking apprentice wighted

However, numerons puzzles

seek out something called the

need to be solved an initial Fol secret pessaga, to give access to a magic door, to lind a map, to load to another spell, to dealtov a qualden, to open a new secuon Instum. The opplis (sample titles



altered, but evon at the Slow set Ima. There is a lot happening on go the screen at any one time

In the two player version, the dorsion of Irmo at the keyboard is left to the players' discretion

which could lead to some in terastmo arguments. Lo say the loss! However, this is obvisted by a delay between giving orders carrying them out, which should dispose of arguments like "but I was going to move the 7th Tanks Corps out of there! Honest!"

dard manner, but m at least one Cauldron) if hardly segmed worthwhile. The entire battle takes

looking list a weelth of historical eccuracy and detail this is the game for you. If you want an enjoyable, short wergame which gives you the Teeling that you are what's happening and able to Jon Sutherland

Braulers ++ Toughness ** Strying Power *** Value ***

most rooms but many of them can only be used once.

Maanyohda your every step is dogged by a series of suitably evil looking enemies such as sorders, writches end doadly Hy chad using one of the Imited nelively, you can waggle a sword et if Decathlon style and hope if dies bellere you do Depleted energy can be rostored usmo a 'heal' spell

The playing erea is vast. Ap. parently there are no less than 70 dillerent stages to be tackled m turn each protected by disone slege tequires moving back and forth through several dfl lerent rooms a successful Imp through the entire castle must For negatio who like mapping.

and lency the prospect of a Herculean challenge, this game Chris Andreson

Graphics *** Sound +++ Youghnass **** Staying Power **** Value



William Wobbler Commodore 64 Wizard Price: £9.95/cass £12 95/disk

Firekal Another software house ellering by money prizes for the Inst to complete their came. F 1 CDC worth oil treasure awarts the first 64 user to solve Writiam's problems

Wobbler Iso named because his head wabbles when he welks) is a woody yet rather large dragon. You must holp him. negotiate a cavernous labyrroth and seek out the clues to a Willrem booms his quest in the

orten and pleasant lands above the caverns. Not so pleasant actually, as before he knows what's happening he is pursued by a grzzly looking civewomen with a club. The only solution hare is to run away. The living in secis are much easier to avoid. William is a master of the art of

There are Inn holds through which you can drop into the laby enth but only one of them will gel you anywhere. The other nine have guards blocking The way ligroward. If you find yourself down one of these the only thing to do re lind your way back to the beginning climb up the rope and try another one. The unquarded hole is different every time you

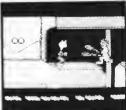
play so thero's no easy wey to barron Once you've got the eight en

trance (bere's a clue, a key, and another funny looking object 10 collect Try as I mraht. I couldn't gel the key though It's suspended from a hook and feehis old William can't jump high enough I fred a number of things including waiting for the cascading boulders to knock it oil, but succeeded in gotting mysell knocked oll metead. By the way, no second chances here, one life only, just like the real thmo as an adverture WW should

provide a Lough chellenge lot anyone. Wizard aren't about 10 Throw ewey Ion grand for nothing Bul quilt honestly tha game uself isn't that exciting The graphers era a bit on the dull and and the whole thmo has an unsperiprular lost about it Unless you can't tests! the cash moentive go for a game without a grmmrck Ken McMahon

* *





A Mixed BAG

64 Utilities round-up

Here's another of our occasional round-ups of "serious" and utility software for the mighty 64. There's the new Electrosound synth package, Font Factory, the Tasword 80-column wordprocessor, a BBC Emulator and the Final Cartridge — our reviewers have been working overtime.

Electrosound 64

Electrosound 64 is the latest synth package from Orpheus It includes the usual synth program, sound presen, se quencer and drum machine Despire its budget price, £14 95 on tape £18.85 on disk), it's roll competing with an already huge range of similar packages — so it's got to be real good.

Well, first impressions are not were

with, this impressions are not very ferovariole the screen display looks unpossably clustered and the manual unfriendly. The saving grace is the Music Demo program at the end of the tape which makes a spectaculas med of Vividida, Beethowen and what could pass off as thoward Jones. If Electrosound can do this, it must be good So let's persevere with a

Electrosound has five basic opnones: manual play, sequence write/play and rack write/play. Manual Flay turns the upper part of the 64% keyboard into music keys You have those music channels (you can play any permutation of them simultaneously) and a set of ten sounds or 'vocces' Another four sets of 'vocces', one for drums and effects can be loaded in

The work present are very impression, grings a bug erage of wounds and effect Trouble is, finding and using the keys to change the ADSR everlope, filters, channel playing mode, tuning and the syntam order findings on the screen is annound and confusing — and the manual grey sent help. By the way, the manual play keyboard arrangement corresponds with Commodors's Musik Makes, so you can use as heyboard overlay instead of the combersoine 645 keys

On to the sequencer again you have three simultaneous channels three pain himmones) and the choice of any of the preset voices, plus the ones you've edited yourself Notes and drum beats are placed on a grid pattern which is played, fastforwarded and rewound like an imaginary tapercoorder. Annoyangly, you must find out 50 yourself that you must use the first forward key to actually enter notes on the and (or phone Orpheus)

Sequences can be looped, copied and stranging together inno tracks, whach can then be played as a whole. This gives you plenty of scope for ambatious compositions with loops and repeats Careful note arrangement lets you use all three channels and set a drum bear inno the busing.

Electrosound 84 is a enmplex product for the price, as the reference section in the manual shows. Trouble is, it's so cumbersome to understand and use for beginners, that their enthusiasm to delve further may be hosed-down. That would be a pity.

Bohdan Buciak

- Electrosound 64
 Orpheus Ltd, The Smithy, Unit 1, Church Form, Hatley St. George,
- nr Sandy, Beds. 0767 51481 • Price: £14.94 (cass) £18.95 (disk)

Font Factory

New from Imper Softmare comes Foats Factory, a program that lets you enhance printing with the Commodore 1525 and MPS 801 printers It gives you a chance of font ayles (some with true descenders) and the finding to design and save your own. The program also includes Sigmwitter-64, a large-fetter program – that use only one font. The whole lot comes on disk only, for £19 95.

To cut costs, Impex doesn't supply an instruction book. Yes, it's on the disk and you have to print it out — the result looks something like a toilet roll advert. This



Electrosound's Sequences screen.



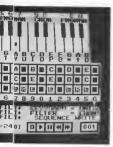
Monual Play

task takes about an hour, thus highlighting one of Font Factory's problems. The characters it prints are actually userdefined graphics; it can take up to four or five passes of the head to print a single

Having creared your document, you load the fonts you need. Eight are already supplied (gothin, future, byte, roman, micro, bold, descender and grand), but you can held up to 14 in memory at the same men, including any you've designed yourself. Designing fonts is rather like using a sprite editor — a grid in which you move a noister around to set or unset the niselt.

Printing files is straightforward, but on ly if they were saved as 'sequential' files. Most WP packages (like Easyscrap) do this but there are exceptions, Vizawrite for example, which saves text as 'program'

Another snag is that to get the most out of Font Factors, you must embed its own commands in the text If your file stready contains embedded commands used by your WP package, Font Factory will print them out. So you must configure text specifically to be printed by Font Factors.



I was enthusiastic when I first heard about Font Factory. Now that Pve used It for a few days I'm getting rather disappointed. The reason is not the facilities offered has the laborious method of using them you've gnt to have plenty of spare time. If you must have fancy fonts and descenders on your Commadore printer, Font Factory works well but it's not recommended for the impatient.

Chris Durham

· Font Foctory Impex Designs. Metro House. Second Way. Wembley, Middx

03,900,0999 Price: £19.99 (disk)

Shado BBC **Emulator**

The BBC micro has one of the best BASICs available on a bome computer However, most people would agree that the Commodore 64's BASIC is pretty terrible. Doesn't it seem reasonable to amend this situation? Actor Softmare certainly think so, and have produced Shada, to emulate BBC BASIC on the Commodore

and provide an 80 column screen display. To begin with, don't try to pick up Shado, type in a BBC BASIC program, and expect it to work. Shado falls far short of being a true RRC emulant; it merely substitutes a number of BBC BASIC com-

mands for normal Commodore 64 BASIC. The first problem you're likely to encounter is the lack of the BBC's eight screen modes. Mode fl is the 80 column text and eraphics modes. Modes 1 to 6 are a mixture of text and graphics, with mode two being the most popular, having a sixusing COLOUR unmediately changes the entire screen colour, which should only occur after a CLS command, otherwise just the printed areas should have the new background

Further problems include different character sers, where the BBC symbols for backslash, underline, nound sum and only brackets are incorrect, COLOUR works.

this is an example of the FONT FACTORY type styles

Chiz is GOEATE, USTW FARRY.

This is PUCUPE, slightly difficult to rend,

This is BYTE as seen on chemic books etc.

This is BOMAN: slightly fancy.

THIS IS HECED. NO LOUBE CASE WITH THIS.

This is BOLO, stands out for headings etc.

DESCENDER adds thus descendent on union 1808 resinted

Finally GRAND, for hitting the big time!

Examples of Fant Factory's built-to fant styles.

teen colour palette available (earlit and eight flashing, through changeable) Finally. Mode 7 is the most used, containing teletext text and block graphics, in eight colours, using only 1K of memory. Shado only supports two of these modes.

namely zero and one. Mode zero gives a readable 80-column display and graphics, whilst made one produces 40-column text - no four-colour medium-resolution graphics, as should be avadable. You also have difficulty fitting the standard 32-line BBC screens onto the 25 hites available

Other "not included" items included the @% variable, which is used for formating numerical output, DIMensioning arrays is implemented, but not for byte arrays (eg. DIM × 255) and the documentation for DIM is wrong. Even with the superior sound chin available in the Commodore 64. Aztec haven's attempted to implement the ENVELOPE command.

Few of the VDU commands will work. including user-defined graphus, text and graphics windowing, and logical colour changing only affects the screen, not the but changing just the background colour immediately affects the whole screen. The ELSE of an IF . . . THEN . ELSE Line requires a preceding colon. AUTO line numbering incorrectly allows you to continue beyond line 32767. Even command abbreviations, such as 'L', for LIST give different results

Strangely, the programmers seemed to have snent much more effort trying to achieve BBC like operation on some of the infrequently used commands. For instance, ADVAL (Analogue-to-Digital VALue), which is remailly used on the RRC to check the state of a joystick, has been implemented in Shado. It doesn't work in exactly the same way, but does give results. Whereas with CALL (accessand machine-code), they obviously haven't implemented true 6502 operation with BBC vectors and so on, but could nevertheless have implemented the command to allow users to access machine code,



I finally threw in the towel on this package, when escaping (RUNNSTOP) out of a program which hadn't worked as it was supposed to, I was faced with a "Too many REPEATs" error message. Whatever I typed, every time I pressed RETURN, I soot this message!

I can only think of two reasons why anybody would want to buy a BBC BASIC consistent. Either they want to be able to enter BBC BASIC programs, possibly because they're using a BBC march a school, or as an alternative to such extension reaches as Simon's RASIC.

In the later case, buying a package in the later case, buying a package designed to make use of the Commodore's facilities, rather than attempting to copy those available on another micro, will be much more useful If, on the other hand, you want to be able to use BBC programs on the Commodore 64, then this package is unlikely to be able to help you, due to the very lumined emulation possible.

the very limited emulation possible.

I'm a great believer in BBC BASIC, and tend to use it in preference to all others, including the QL. A more comprehensive emulator would, therefore, have scored very highly in my books. Somehody has spent a lot of time and money producing Shado. What a pity they didn't do the joh properly.

Mareus Jeffery

- Shada BBC Emulator
 Aztec Saftware
- c/o Micra Deoler UK 0462 37171 • Price: £14.95 (eass)

The Final Cartridge

With a name like The Final Cartridge, you'd expect this device to crim in a lot of faise, which is a fait load and save system, a printer interface, has toollot and extra DOS commands, a monitor, and a activates the 64's function keys. It's made by H and P Computers of Rotterdam and its

available in the UK for 500. The Final Carridge looks like any other cutridge except for a teser hutton and a switch that lets you disable the device without unphaging it. Inside, there's a for KROM that gives you no certain sterage for KROM that gives you can strange memory read and write control doct howement of the form the form of the f

Punction keys are customised for commands like LIST, RUN, DLOAD, DSAVE, DISK and CATALOG The latter gives a disk directory without overtilling whatever's in memory DISK reads the disk drive error channel without having to OPEN first.

Both DLOAD and DSAVE dispense with the 38 suffix and work about five times faster than normal. The carridge also supports turbs SAVE to cases



Here's a few results. a 29K program loaded on disk in 16 seconds (77 seconds on the 1541) and on tape in 67 seconds (585 seconds normally).

Typing MONITOR (not surpressingly) good to the machine-code monitor unlity whose systax is rather like Super man. One unique command, queed as a bank switching command, lets you switch off the Basic and Kernal ROMs and retire to them, when you leave the monitor.

without crashing
Finally, there's the Centronics interface
(the cable costs £8 extra). Using the interface in direct mode, it worked correctly

with the secondary addresses in the OPEN command when tested with an Epoon panier. It also worked with both Engraps and Supersexps. Superbase 64 did not work with the carridge enabled. The inserface can also handle screen dumps when used with printers that here Bit Map Mode, shades of grey representing a multi-coloured screen. An inverse timing can also be obtained.

Is the Final Cartridge value for money? If you consider that you get a fast load and save system, a Centronics interface, monitor, toolkit commands and functioning Function keys, the answer must be a resounding yes — that's if you needed the whole lot anyway.

David Chastney-Parr

- The Final Cartridge
 Gearge Lloyd
 Harnbeam Walk.
- Witham, Essex. 0376 511471 • Price: £50 (printer cable £8 extra)

Tasword features three help screens accessible from the function keys

```
THE NO BD B 4 BL F P R GE
LET HERDH SECTIONS OF THE SECTION OF THE
```

Tasword 64

Der's so many good 64 word processors actual, that a new package has to be pretty special to get noticed. Trawword 44, from Traman Syftware, has those quadrications it gives the 64 on 80-column text displays without a hardware addon (44 columns are optional), and you pay only £17.95 on the trap and £19.95 on disk. Trawword has already made a name for untell on the Spectrum and Ansated machines.

Taword formats text on screen so that what you see is what appears on the printed page. And what you see is pretty good considering the 64 was intended only for 40-column use Admittedly 80-columns are a httle hazry on a TV set but become very readable on a monitor. In 2011 case, you can always toggle to 40-columns

you can always togget to quo-contamis.

The package provides all the features you'd expect, it's menu dayen, has good screen eshtirally, wordwrap, paguin, night and left justification, block move and copy, search and replace; tabs and margina, page headers and footers, and page numbering You can also change screen colour combinations to put your every

timations to tust your eyes. A lot of attention has been paid to letting you customise the package for different printers. The defaults obviously apply to Commodore machines but the device number can be changed to implement the built-in. Cearonics interface. My Epson RX-80 worked walnot problem.

Sunstarty, there's the facility to change the ASCII values of control codes used for embedded text commands — things like itality, underline and double-strike Just look the values up in the prainter manual, key them in and off you go. The same applies to changing values for, say the £ sign, which has no standard values.

Nearty all the edatung and control functions in Tasword are performed using CTRL and another key Ther's often as logical connection between a key and its function so you need to learn a lot of them to be able to work quickly. Luckoly, there's a set of HELP sovenes that summarize all continuous, Like the directory display, exsisting text is not serubbed when you call

them up.

The Tasword manual was not yet ready at time of retirew, but Tasman says it will be a comprehensive and easy to digest affair and will contain a tottoral section Certainly the HELP screens (with two careless exceptions) provide sufficient information in their own rath.

in their own ragon.

To sum up. Tasword is a pretty unique product. It 's 80-column display a siwell readable and backed up by a well
thought out program that really can
hold its own in professional use. On
top of that, it's very cheap.

Bohdan Buciak

Price: £17.95 (coss)
£19.95 (disk)



Hey prestol 80 columns with Tasward

Tasword 64
 Tosman Software
 Springfield House,
 Hyde Terrace,
 Leeds LS2 9LN
 0532 438301
 Price: F17 95 (cass)

TOP TEN IN EDUCATIONAL SOFTWARE

FOR THE

COMMODORE 64 or VIC 20

- (1) PHYSICS O LEV/CSE
- (2) BIOLOGY O LEV/CSE
- (3) MATHS CSE (4) COMPUTER STUDIES O LEVICSE
- (5) MATHS 12/14 YRS
- (6) SCIENCE 12/14 YRS
- (7) MATHS 8/11 YRS
- (8) ARITHMETIC 7/10 YRS (9) REASONING 11+
- (10) KNOWLEDGE 9/99 YRS

Immediate delivery by First Class Post
MICRO-OE-BUG CONSULTANCY
OFFT CIL 60 SIR JOHNS ROAD

OEPT. CU. 60 SIR JOHNS ROAD SELLY PARK, BIRMINGHAM B29 7ER TEL. 021-472 7610

(Please stata computer)

Written end produced by Qualified Educationalists.



SIMPLY WRITE - ward processor full feetures budget page. So pasy that it's even in pamery schools as well in in Inser Leadon to Hone Kone Pat 40/66 Blok E50, Tene E40 C64 E40/35, Vic (164) E35/25

SIMPLY FILE - DBS (file management system) Prenticel cohier easy to use and year using weetable. Direct executions was read

Pet 48/80 (Besk only) FTS CES FS9.95 Also for Vir (ASS)

SIMPLY ASSEMBLE - 'assembler processor Full feature symbolic essembleneditor/transcembles packed that works like e word Store and link source code assemble for other mechanis Pet 40:96 & C64. Disk or Taxo E22.

SIMPLY CLASS ADMIN - class organiser pecietised DBMS to ofen eleases and Agen track of them. Franto clock tetilos, no to were refront worther by tecebra for rain etc. Pet 40:00 10:sk :nly! £50

SIMPLY LIST - structured lister (Disk)

Secretes statements as same line undoors to show conseen For 40100 ifficia only) F10

SIMPLY RECOVER - 'disk requir kit' Efft daks, racover from read errors, mergi Pet 4830 Daly 517.

Send for details of these and other useful programs for Pet/64 ALL PRICES SHOWN ARE INCLUSIVE P&P FREE

Simple Software graducts available from Brian Tregar 15 Havelock Road, Brighton, Sussex BN1 5GL Tel: (0273) 504879

DCI 4 INTERFACE ORDER AS DOL1 PRICE \$10.00

This SUPER OCLS is to shope with one datasette and one fudio secords: Back up tapes can be made on either a second betaseth or on an audio secords: A LED data INTERFACE Vary popular ORDER AS DOLE PRICE EST 50

DCI 48 STATE ARE IN THE DICKS had littled with an Audible data INTERFACE

DCL4

TARE TAPE HEAD DEMAGNETISER per week fro need to dismandle the D

meset 9 This unit allows a RESET through the carridge port but also enables MAINS SURGE ELIMINATOR WITH 4 SOCKETS Filted with 4 standard 13 amp MAINS BOWER OF FAREN LINES WITH TWIN SOCKETS. Fitted with two 13 amo

MAINS POWER CLEANER UNIT WITH TWIN SOCKETS. Filled with 14th to purpose sockets makes switch neon indicator and a wideband reactive makes filled PLUS transient suppressors. This unit is ideal for inducing severe mains.

PRUS 124 named auppressors. PULS transport overpresses of the second of

DT LOADER CARTRIDGE WITH BUILTAN RESET SWITCH

"FAST MAIL ONDER SERVICE PLUS TO DAY MONEY BACK GUARANTEE ON ALL NARDWARE."

AND PRICES AND PAULY MICHIGAGE AND INCLUDE RECORDED DELIVERY EXPORT ADDIC SO EXTRA." TRILOGIC Dept CU, 29 HOLME LANE, BRADFORD BD4 00A 0274 634215 OUR CASH & CARRY SALES COUNTER WILL BE GREINING SOON REAR OF SHOURE LAME, BRACKOOK &

TASWORD 64 the word processor 80 characters per line on the screen!

TASWCRD 64 is a new member of the highly acclaimed TASWIDAD family of word processing programs. Eightly characters per ine on the screen is just one of the features of this versable program TASWDRD uses ts own internal character set in which each character is half the width of the normal character size (Perfectiv readable on a monitor-on a colour T V the best results are obtained by tuning an unused channel to black and white). With an eighty character display you know that what you see is what. you are going to get when you print your text.

No text reformatting before printing and no need for horizontal scrolling. Your text is printed just as it looked on the screen. TASWDRD 64 comes complete with a quality manual and TASWORD 64 TUTOR This twiches you word processing using TASWDAD 64 Whether you have senous applications or simply want to learn about word processing, TASWORD 64 and TASWORD 64 TUTDR make it easy and

Andler nevertable Industrial TASMORDS4 others

One of a famous family TASWORD TWO (7X Spectrum) TASWORD MSX [MSX Computers] TASWIRD 464 (Amstrad) TASWITRID 464-D (Amstrad) TASWORD EINSTEIN (Tatung Einstein)



Telephone (0532) 438301

| I enclose a chequeiPO made payable to TASMAN Software Ltd OR charge my ACCESSIVISA numbes | If you do not want to cut this magazine just write your order and post to: TASMAN Software Dept. OU Springfield House. Hyde Terroco. Leeds US2 9UN | | |
|---|---|-------|--|
| NAME | ITEM | PRICE | |
| ACIONESS | | £ | |
| | | £ | |
| | Quasde Sumpe add £1 50 per sen for ormal | Ε3 | |
| | TOTAL | Ε | |

cassetta £17.95 disc £19.95

Please sendine your FREE brachure discribing TASWCRD 64 Tickhore

All groces include VAT and good and pack some. Telephone ADDESSIVEA orders Levels (0532) 436301

THE ULTIMATE ENHANCEMENT TO YOUR COMMODORE®

Supports Commodor 2-character graphice silua 96-character ASCII with true decendara

Commodore 64 and VIC serial interfaces.

4" to 10" wide paper,

Super quiet

One million character



Advanced design features unique to the Riteman C+ give you big, first, printer performance with Commodore graphics, in a super-compact, ready to use, portable desidop unit making it first choice for your Commodore system. A revolutionary front-loading design eliminate paper feed problems, end any weight of paper - even card - can be used. The filterian C+ also gives you a super-compact printer footprint. A bustlem compact in the standed under the printer giving you 50% more desik space.

Beecon House, 26/2 London SW19 4EE Tel: 01-945 4960. Tu

I want to know more about to clease rush me a delapack I want to know more about the Ademan C+. Please indicate End User Dealer D OEM D

BOUNCES THE SPORT OF THE FUTURE

I

m

T

0

D

 $\overline{\lambda}$

m

D

Z

S

GRAB THE ACTION!

ш

H

I

E C

4

0

CRE

⊢

Ш

SUUZ



Mail Order MONOLITH, 3rd Floor Lector Court, 151 Formegdon Rood, London ECTR 3AD. All games priced at \$9.95 inc F&P. Cheques/POS poyable to BEYOND. Credit cards call 01-837 2899

Satellite Invasion — for the Commodore 64

by Simon Jay

Not just a boring old shoot 'em up game -- this one's inventive and original. Using your laser, you must destroy the invading rocket satellite. Trouble is, it shoots only one way. So you must place mirror satellites (up to three) in strategic positions to deflect the beam, Easy? You must be joking.

Full instructions appear on the screen - but you'll need a joystick.



- 1 RFM ****** 2 REM *SATELLITE INVASION* 3 REM *BY SIMON JAY
- 4 REM +ON THE CBM 64 5 REM *********
- 6 POKE53281,0
- B GOSUBSONO 7 DAs=""
- 10 PRINT"ECLS1": AA=20: BB=1: MI=66: Z=0: KL=0: T=0 15 READDA®
- 16 PRINT"[HOM][23CD][16CR]LEVEL[28PC]:":LV
- 17 PRINT"[16CR]TARGET :":DA\$
- 20 PRINT"[HOM][REV][40SPC][DFF]":
- 30 FORJ=1T020:PRINT"[REV] [OFF][3BSPC][REV] [OFF]"::NEXTJ
- 40 PRINT"[REV][40SPC][OFF]"
- 50 FORJ=552967056095:PDKEJ,1:NEXT
- 60 FORJ=561367056295:PUKEJ.6:NEXT
- 70 FORJ=1825T01862:POKEJ.102:NEXT
- 80 FORJ=1785T01822:POKEJ,104:J=J+1:POKEJ,102:NEXT
- 90 POKE1804,86:POKE1764,113:PDKE1803,121:PDKE1805.121
- 95 A=INT(34*RND(1))+5 96 B=5
- 100 REM *READ KEYBOARD* 105 PRINT"[HDM][22CD]TIME 1"; T: IFT=LTTHEN1000
- 106 T=T+1 110 REM *PUT SATELLITE ON SCREEN*
- 120 PUKE1024+A+40*B,127
- 130 POKE1024+AA+40*RB.MT
- 135 PBKE1024+A+40*R.32 136 POKE1024+AA+40*BB.32
- 140 M=INT(100*RND(1))+1
- 150 IFM=25THENA=A+1
- 160 IFM=50THENA=A-1
 - 170 IFA=@THENA=A+1
- 180 IFA=39THENA=A-1



ograms Programs Programs Programs

- 190 IFM=75THFN8=8+1
- 200 IEM=100THENB=R-1 210 IEB=0THENB=8+1
- 220 IFB=17THENB=B-1 230 FR=INT () T+RND (1))+1
- 240 IEEE:30THENROO 300 REM *MOVE MIRROR*
- 305 PE=PEEK (56320) 310 IFPE=119THENAA=AA+1:MI=78
- 320 IFPE=123THENAA=AA-1:MI=77 330 IFAA=ØTHENAA=AA+1
- 340 IFAA=39THENAA=AA-1
- 350 IFPE=126THENBB=BB-1:MT=119 360 IFPE=125THENBB@BB+1:MI=100
- 365 IFPE=111THENPOKE1024+AA+40+BB .MI: AA=20: BB=1: Z=Z+1: IEZ=3THEN400
- 370 IFBB=0THENBB=BB+1 380 IFBB=17THENBB=BB-1 390 GOTO100
- 400 REM *FIRE LASER* 405 KL=46:POKE1024+A+40*B.127
- 410 C=20:D=17:LB=-1:LA=0 415 FORL=1T050
- 420 POKE1024+C+40*D.KL 440 C=C+LA
- 450 IFC=00RC=39THEN610 500 D=D+LB
- 510 IFD=0THENA10
- 511 IED=20THEN600 515 POKE54296, 15: POKE54276.0: POKE54277.1: POKE54273.30: POKE54276.17
- 520 IFPEEK (1024+C+40*D)=77THENLA=-1:G0T0440 530 IFPEEK (1024+C+40*D)=78THENLA=+1:G0T0440
- 535 IFPEEK (1024+C+40+D)=127THEN700 540 IFPEEK (1024+C+40+D) = 100THFNLB=+1:GOTO500
- 545 IFPEEK (1024+C+40*D)=119THENLB=-1:G0T0500
- 550 IFPEEk (1024+C+40*D)=113THEN1000 560 IFPEEL (1024+C+40+D)=86THEN1000
 - 570 IEPEEK (1024+C+40+0)=121THEN1000 590 NEXTL
- 400 REM *TURN OFF LASER*
- 605 POKE54296,15:POKE54276.0:POKE54277.154:POKE54273.4:POKE54276.129
- 610 IFKL=32THENZ=0:POKE1024+A+40*B.32:GOTO200 620 KL=32
- 630 SOTO410
- 700 REM *DESTROY SATELLITE*
- 710 POKE54296,15:POKE54276,0:POKE54277,190:POKE54276,129 720 FORK=15T00STEP-1
- 730 POKE1024+A+40*B.32
- 740 FORJ=10T01STEP-1:POKE54273,J:NEXT
- 750 POKE53280.K:POKE54296.K
- 760 POKE1024+A+40*B,42:POKE55296+A+40*B,K 77Ø NEXTK
- 780 GOTO2000
- 800 REM *SATELLITE FIRES* 805 FOKE1024+A+40*B.127
- 810 OB=+1:K=A:L=B:L=L+1 815 0=INT(2*RND(1))+1
- 816 IFQ=1THENFB=+1 817 IF0=2THENPB=~1
- 820 POFE1024+k+40*L,46



grograms Programs Programs Programs Prog

830 POKE1024+K+40*L.32 84Ø L=L+DB 841 IEL=ØORL=2ØTHEN9ØØ 945 V=V+Pb 846 IFK=00RK=39THEN900 850 IEPEEK (10/24+K+40/+L)=113THEN1000 860 IFPEEK (1024+K+40*L)=86THEN1000 870 IFPEEK (1024+K+40*L)=121THEN1000 890 GOT0820 900 POKE54296.15:FOKE54276.0:POKE54277.154:POKE54273.4:POKE54276, 129:GDTD1@@ 1000 REM *YOUR DEAD* 1100 FORJ=15TD0STEP-1 1200 POKE53281,J 1300 POKE54296, J: POKE54276, 0: POKE54277, 192: POKE54276, 129 1310 FORH=1T010:POKE54273.H:NEXT 1320 NEXTJ 1330 POKE1804,32:POKE1764,32 1340 PRINT"[HOM][20D] YOUR BASE IS DESTROYED." 1350 PRINT"[CD] ":DA\$:" IS LOST . 1360 PRINT"[CD] YOU LASTED ":T 1361 IFT=LTTHENPRINT"[CD] YOU RAN OUT OF TIME." 1365 PRINT"[CD] LEVEL[6SPC]":[V 1370 PRINT"[CD] ANOTHER GD (Y/N) " 138Ø GETA\$ 1390 IFA\$="Y"THENRUN 1400 IFA\$="N"THENPRINT"[CLS]":END 1410 GOTO1380 2000 REM *YOU WON* 2100 PRINT"[HOM3[2CD] WELL DONE YOU SAVED ":DA\$ 2200 PRINT" [CD]YOU DESTROYED THE ENERMY IN" 2300 PRINT" [CD]THE TIME OF ":T 2310 IFDA\$="MONTREAL"THENPRINT" [CDJTHE WORLD OWES YOU ONE....." # GOT 02400 2350 FORM=1T05000:NEXT:GOT010 2400 GOT01370 5000 REM *INSTRUTIONS* 5100 PRINT"[CLS][REV]SATELLITE INVASION[OFF]" 5200 PRINT"----5300 PRINT" IN THIS GAME YOU ARE IN CONTROL OF" 5400 PRINT"AN EARTH LASER, THE MAIN COMPUTER WHICH" 5500 PRINT"PIN POINTS THE TARGETS TO DESTROY" 5600 PRINT"HAS BEEN DESTROYED DURING REPAIRS" 5700 PRINT AN AIR TO AIR ROCKET SATELLITE HAS BEEN" 5800 PRINT"DETECTED, IT CARRIES THE MOST POWERFUL! 5900 PRINT"MISSILES KNOWN TO MAN. YOUR JOB IS TO" 6000 PRINT"SAVE THE BASE AND THE WORLD " 6100 PRINT"BY USING DNLY THE MAIN LASER." 6200 PRINT 6300 PRINT"THE LASER WILL ONLY FIRE IN ONE " 64000 PRINT"DIRECTION, USING SMALLER SATELLITES" 6500 PRINT"WITH MIRRORS, YOU CAN GUIDE THE LASER" 6600 PRINT"IN ANY DIRECTION, TO DESTROY THE ENEMY." 6700 PRINT 6800 PRINT"PORT 2:-" 6900 PRINT" JOYSTICK[4SPC]= UP[4SPC]/ MIRROR ' [6<Y] ' " 7000 PRINT" JOYSTICKE4SPC]= DOWNE2SPC]/ MIRROR ' [B<@] ' " 7100 PRINT"[CD] JOYSTICK[4SPC] = LEFT[2SPC]/ MIRROR ' [G>M] ' 7200 PRINT" JOYSTICKE4SPC] = RIGHT / MIRROR ' 16>N3 7300 PRINT" JOYSTICK[2SPC]FIRE TO KEEP POSITION[3SPC]"

Programs Programs Programs Programs

```
7400 GOSHBOTON
7500 PRINT"[CLS1"
7600 PRINT" YOU ARE ALLOWED THREE MIRROR SATELLITES":
7700 PRINT"PER TRY, BUT MORE ARE COLLECTED DURING"
7800 PRINT"THE SAME. TO ERASE AN MIRROR. OVERLAP IT"
7900 PRINT"WITH A MIRROR GUIDED BY JOYSTICK."
8000 PRINT WATCH THE ENEMY ROCKETS.IT WILL TRY TO"
8100 PRINT"DESTROY YOUR MIRRORS AND GROUND LASER."
8200 PRINTIPRINT
8300 PRINT"[CD][7SPC][G(B][2SPC]- SATELLITE"
8400 PRINT"[CD][7SPC][8(+)[2SPC]- EARTH[4SPC]"
8500 PRINT"[CD][7SPC][6KE][13SPC]"
8600 PRINT"[6SPC][6<0][5>V][6<0] - YOU LASER"
8700 PRINT"[2CD1INPHT | FVFL"
8800 PRINT"[CD](1-5)[7SPC]
8900 INPUT"[CD]";LV
9000 TELV<10RLV>5THENR900
9100 TELV=LTHENLT=30
9110 IFLV=2THENLT=60
9120 IFLV=3THENLT=120
9130 IFLV=4THENLT=240
9140 IFLV=5THENLT=480
9200 RETURN
9300 PE=PEEK (56320)
9400 IFPE=111THEN9999
999B GOTOSTAN
```

10000 DATANEW YORK, PARIS, DALLAS, MIAMI, MONTREAL

HOW TO USE EASY ENTER COLOUR CODES and s ORGI Dress CIRL - press CTRL and 2 - press CBM key and 1 press CTRL and 3 - press CBM key and 2 IL REDI press CTRL and 4 - Dress CBM key and 3 - press CTRL and \$
- press CTRL and \$
- press CTRL and \$ [GR1] [GR2] [L GRN] - press CBM key and 4 - Dress CBM key and S - press CTRL and 7 - press CTRL and 7 - press CBM key and 6 IL BLU press CTRL and 8 - press CBM key and 7 IGR31 - press CBM key and 8 COMMODORE GRAPHIC CHARACTERS OTHER CODES PRINT WHITE CURSOR DOWN - press 'cursor up' key REVERSE FIELD ON - press 'cursor down' key CD - Diess Critsot Jeff, key FUNCTION KEY F2 FUNCTION KEY F4 CL - press 'cursor right' key URSOR RIGHT B FUNCTION KEY FE CR - press HOME key RINT GREEN B FUNCTION KEY FB - press CLEAR key CLS PRINT BLACK - press INST key (Insert) UNCTION KEY FI - press RVS ON key (CIRL and 9) CURSOR UP DEF REVERSE FIELD OFF - press RVS OFF key (CTRL and B) REV OFF CLEAR - press spacebar FUNCTION KEY FT SPC - press CBM key with specified key MSERT G < keyl - press SHIFT key with specified key PRINT PURPLE CURSOR LEFT G>keyl PRINT YELLOW EXAMPLES: PRINT CYAN - press spacebar three times - press 'oursor down' key five times [35PC] SCD) - press SHIFT key with 'F IG>F

9999 RETURN

Crazy Maker — for the Commodore 16

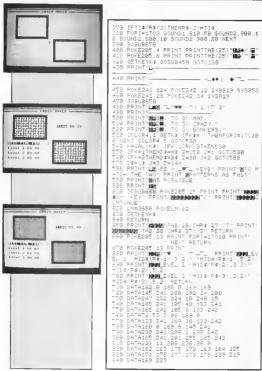
by David Goodfellow

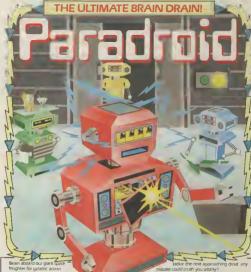
Calling all puzzle-freaks not just one but three puzzles to turn you into a raving lunatic. You have to match the design in the top screen by manipulating the eight lines in the bottom screen. Move the lines using the right-lifet cursor keys and go up and down the liens with the vertical keys. Test your friends' skill with the best time facility.

When you've cracked the 'go mad' screen, move up to 'go crazy' and (if you're nerves can stand it) to 'go bonkers' — and you probably wilf.

10 DIMA(7).B(7, C:2) 28 FORI=819 TO 884 READM CHECH+M POREI,M NEXT IFCH @ 9685THENPPINT"DATA EPROR" EN 58 COLORY, 7.3 COLORA, 3 5 VALG PRINTCHR&: 48 R#(1)="888888 P#(2)="888888" R# 3)=" 399999 50 PRINT"L' PRINTCHR\$(14 60 FORT=1TO7 READA(I) NEVT 78 FORI=17068 X=INT(RND(B)*7)+1 A\$=A\$+CH RESE(XI) NEW SP FORI=1TO7 READBAL NEXT 98 FORI=17068 X=INT FND(B) #7 +1 B\$=B\$+CH P# B(X) | NEX 188 FORI=1TO2 READS. I: NEXT 110 F'PI=1TG68 N=INT(PND/0 #2)+1 C\$=C\$+C HES LIVE NEXT "ZB GUSUB430 138 GCSUB668 GOSUB558 PRINT"L PRINT" 148 FURN=1TOS P1:N:=[NT(RND(1:456)+1.PR] NTTHB(5)CHP\$(Z)MID\$ D\$,P1(N:,12: NEXT 168 FORN=1T08 P2:N:=INT:RND:1:*55:+1 PRI GTTAB(21) CHR\$(Z,MII & D\$ F2,N: 12) NEXT 178 GOSUB678 188 LC=1 TI\$="880888" 198 GETMS M=ASC/MS 200 IFM=145THENDER 210 IFM=157THEN300 120 IFM=17THEN200 230 IFM=29THEN328 248 M#= " 250 POKE285,6 PRINT PRINTTAB(22) M IME #ID#:T1# 3 2) " "MIT#:T1# 5 2) GOT0190 E58 POKELN 32 LN=LN-40 L(=LC-1 IFLN(3650 278 POKELN, 62 GUTU198 238 POKELN, 22 LN=LN+48 LC=LC+1 IFLN03930 THEHLN=3938 LC=8 388 POKE205,12+LC PRINT P2-LC)=P2:LC++1 IFP2(LC): 56THENP2(LC)=56 328 POKE205.12+LC PRINT P2 LCN=P2(LC)-1 2FP2(LC)(1THENP2(LC =1 330 PRINTTAB(21-CHR\$ 2.4ID\$(D\$ P2(LC) 12 948 FORK=1708 IFP1/2/GF2/X/THEN198 958 NEXT POPELN 32 350 IFR\$(J)="000000"THENR\$ J)=TI\$

Programs Programs Programs P





that'll leave you breathless! Your mission is to clear the ship of crazed droids using a new gadget called an Influence Device. You are weak so you must trap a droid and take control through mental fusion. Blast other droids to clear the ship. Be warned, your droid

You have to decide in a few milli-seconds whether you can

will soon become exhausted so you have to keep transferring What's more, droids are graded in strength

on & C64 67.95

There's a consul for checking droid status, but you'll have to chase them from the engine room to the bridgeit's a tough mission! Spectacular graphics spread over 18 decks with constantly

updated status menus and exciting sound make Paradroid compulsive playing. Find out how your brain power. compares with a droid today!

For the Commodore 64 £7.95



HEWYOU COUPRITYULY

66 Mison Trading State, Milton Abindgon, Dion CXIN 48X For mail order send chequelpostal order made payable to Hewson Consultants. For credit card sales state your Access! Barclaycard number and enclose a specimen signature Don't forget to enclose your own name and address





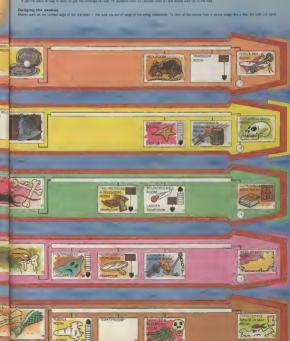
Help is at hand in Ultimate's latest toughts. Sy Arthy Pendingos between his faces west between rooms 4 and 6. First out the sword is noom 4 than tay the bell is noom 6 with ri. They will boost your searcy firming doubtecom will have

to be seen written. We shall be seen the pear in room 1. Thus enses amenable from the processing a soom 5. The skill found have and the crossbases found be room 21 should be placed.

in 196m (4 twents a bell list the bell the could from room 23 and the book from room 15 to det aid of the Great Posts in room 2

your streets to the sheet from the door, as you expressed at the sector eath the sheet or you find the term to the remarked from their wall also have to give her the merry obtained from took

To get the place of mas in room 22 get the total copie in room 19 acroms 27, seatast mem 32 and singly walk up to the map.



Top Games

































HOW TO DRDER

GRAND TOTAL

| CAR TWARE |
|-----------|
| |
| |

KELVIN HOUSE, TOTTERIDGE AVENUE, HIGH WYCOMBE, BUCKS HP13 8XG (0484) 450751

| 0 | ORDER 6 | FORM | | CH 1 |
|---|---------------------|-----------------------------------|----------------------------|-------------|
| My computer is it. S I wish to subscribe to yo The sitles I would like to | ut Manager and take | Commadore 64 adventage of your | Ametrad "Introductory Bons | n Pros Offs |
| TITLE | | | PRICE | |
| _ | | | | |
|) would like as rey free gr | 800 | | TOTAL | |

or blesse charge my Access/Vew Card No

I understand that if I am not fully satisfied with the goods. I may return shem within four a full valued oil the cost of the games and the Magazine subscription. Nama (BLDCK CAPS)

* Export Cesterners. We verticate orders from all parts of the world, places now the following subscuptor and portage rathe culoride UK. Eutrope — Subscingtion (7 DC. Post 12 U.S.A. and Middle East Subscingtion II.7 Rest 23 Auroralia, Far East and South Africa. Subscription II.2 CV. Post 14 Research for that all Magitimes are deepstohed by Ar Mail postage to what you make yor not date.



Enhance your drive

The Enhancer 2000 reviewed

by Fred Reid

The 1541 has had it too good for too long — there's just no alternative to it if you want to run 64 disks. That situation's changing with the arrival of the American-built Enhancer 2000, which claims to behave just like the 1541 itself.

Until now, choosing a disc drive for your 64 was simply a matter of buying. Commodore's 1541 due drive, or gaing for noe of the many devices that can't not the 64's 5.25 inch disks. Faced with that choice, the decisean is clear cut. An American company called Comel sim to change all that with the Enhancer 2000, a truly 64-compatible drive that goes a long way towards emulating the 1541.

Food Inoks

The Biblancer is physically smaller than the 1541, about half its size and considerably lighter. That's mainly due to it's separate powerpack. Having the hefly power supply outside the druve's case helps to prevent overheating as well as keeping the drive down to sensible dimensions.

The actual drive unit made the Enhancer is manufactured by Chinon Industries in Japan, and features a direct drive motor — the 1541 is shell driven; although I can't see much advantage there (one less part to wear out). At least, the Enhancer is a little quieter when running. 154) in several ways: The 154) has two indictous hamps (red and green) on it's front panel, where as Enhancer bus an additional yellow lamp. On the 1541, the red lamp indicates 'drive active' when on continuously, and 'error' when it flashes. The yellow lamp on Enhancer behaves in indicators that the date is spinning, and in both cases the green light shows that the drive is switched on.

The other main difference is the door and eject mechanism. The 1941's door inspires little confidence (mine sexually wore out), and the eject mechanism is temperamental. Enhancer's door feels a look nicer to use, and on closer inspection proved to be a much better deagn stogether.

Internally, Enhancer appears well put regether, with a pair of removable jumpers to permanently change the device number



(exsential if you are using two drives). The tame operation on the 1541 involves cutting bits of track (a bit too permanent for my liking)

Enhancer's rear end proves no more interesting than the 1541's. A pair of serial connectors (cable supplied) for connecting to the 64, other disc drives and printers, a power socket that connects to the powerpack and an on-off switch. The only thing missing here is a first

Perhaps the biggest attraction is the Enhancer's speed - np to 40% fisrer than the 1541 (see table). As far as comparability is concerned. Enhancer has a few quirks By far the biggest bug causes any disc operation (Load, Save, prins# etc.) to crash if there are sprites on the screen. Disabling the sprites is a simple matter if it's your own pagram, but what if a more of commercial software were to provide an animated display using sprites while loading?

Out of the fourteen cames and unlittee we tried, three of them refused to load at all and one only loaded when it felt like it! Wouldn't you just kick yourself if you'd just spent £30 on the latest mess game only to find it won't work with the Enhancer? A Comtel spokesman agreed. "There are several peograms that won't work with Enhancer, but we're working on

Enhancer's DOS (Disc Operating System) has a couple of extras, formatring takes only 20 seconds (80 seconds on the 1541), and extra commands allow you to 'lock' a file (prevent it from being accidentally scratched), write-protect a disc. and slow down to 1541 speed. Mind you, they've taken out the Block Execute command that some sonbisticated protection systems use, and that could cause notold companielity problems in the

If you still find the Enhancer a bit on the slow side, you can make it go even faster by selecting Vio 20 speed and blanking the screen before loading, but you can do the with the 1541 anyway (so you didn't know thai?

User information

Enhancer's manual is bascially a re-hash of the 1541's manual, but with some of the errors taken ant. The manual covers all aspects of normal use and explains each command in turn. A full list of the error codes is included, rogether with an explanation of each one

Enhancer comes with a free disk containing some demonstration software, a test program that exercises your drive and reports on the state of it's health, and several other simple nulmes

To sum up, the Enhancer 2000 is a very attractive little disk drive, well presented and adequately documented. But I'm not at all convinced that it is fully compatible with 1541 formet software, indeed I can't see how Enhancer can be 100% compatible without infringing Commodore's convright on the 1541 DOS, Still. Enhancer's speed makes It an attractive proposition, especially since Vulcan, the company distributing it in the UK is proposing to andercut Commodore's price for the 1541.

| Title Looded: | 1541 | Enhance |
|---------------------|------|---------|
| | Time | Time |
| Pooyan | 110 | DNL |
| Raid Over Moscow | | 1.41 |
| Spifflire 40 | 2 24 | 1.41 |
| Solo Flight | 1.54 | 1 19 |
| Aztec Challenge | 1 17 | 0.52 |
| Archon | 1.50 | 1 16 |
| One-On-One | 1.43 | 1 12 |
| Summer Gomes 1 | 1 07 | DNL |
| nfomaster | 1.52 | 1.20 |
| Supersoript | 1.59 | 1.28 |
| Colossus Chess | 2.01 | 1.24 |
| Fliaht Simplator II | 3.30 | DNL |
| MULE | 1.30 | 1.06 |
| Bruce Lee | 3.05 | 2.53 |

 Enhancet 2000 1541-compatible disk drive Vuican Electronics 200 Brett Street Hendon, London NW4 01-203 6366 Price: £150 (approx)

COMMODORE 64 ● TRANSFER ALL MAJOR TURBOS ◆ AUTOMATIC ◆ NO USER KNOWLEDGE OK AT DOSOFT'S NEW OFFERINGS) SEE WHAT'S IN THEM FOR YO

The lorst restricter willing of the ha

Month design the

\$17 M degat titles this

CITALITIES . TO A DE ME S SOUR PASS CO

Bulle for Strick of Tape Plus

AND STREET APPE

Cint's I by it for the t



all the Commenders business machinest So 5 year have a CEM PET 3001 4600, 3000, 700 or PC, then do all togist in we haven't largarish you! Why not placed of write for our CSMPET estateous?

OUR PRICE (SAME & 58 HS) ... WHILE STOCKS LAST:

151 BOOKS

CH TAPE EISAS AT 61 ON CHEK COME & 21 NOT

Theorem your Commodows to blank and financial for the production of the commodows to blank and financial positions of the commodows to the control of the commodows and the control of the commodows and the control of the commodows and the commodow

ном онгу среб £69 ея

BUMPER BUNDLES!

long posersons loin, machine code

WHILE STOCKS LAST. 1366 129 151

(Fusiblerd » First Bape » Prest riffical for poly (\$45 GSI San (\$25 ex Chre No.2) (Basile 64 complex » Antembrer Monther 63 colly £15 GSI And cares (\$15 ex best-value) Ciffor No.3 (Asstromy of the 54 × Tricke 6 Tips » Cassebs Society output \$15 GSI Proceedings of the 54 × Tricke 6 Tips » Cassebs Society output \$15 GSI Proceedings Society Othersy

VIZASTAR 64

remotors 641 Sufe mail pasters, supplied with accilent handbook (ICLE versor age available with a SES bigger spreadthool plus basiness graphics, \$1,545 SES SES SES

VIZAWRITE 64 A fight performant is, sometime wordprocessor with full ser-assess controlling that self-advantage and self-advantage that self-advantage and self-advan

VIZAVIRITE (DISK) 2244 £67.60 (CARTRIDGE) 2444 £78.60

SuperBook States (SAVE £10) 29 to 8MACH S NASIC (SAVE £10) 35 to MAGTER 64 (SAVE £10) 39 to JETPACK (TAPE) 14 to

EarlySoriet to Subminor - 44 as send dish and mateual cover 44 as SuperSoriet in SuperSoriet 121 57 as 67 pb



UnitSoft

provision provision of the provision of the Buselling Boy rid Hall Mack, rid Cup II and o MiddMegra

CHART TOPPERS AVAILABLE FOR

SUPER CHAMP 100 char per sec. full menha capebility self test mode paper feed STATISTICS. button. Many units in COLUMN THERMAL PRINTE

ATARI, BBC B (stone which required)* Prise technic — Friend at O'Smich Artifaced to and Joycle of O'Strack. All steer systematic VAT processionst package of the Commission of the Accommission of the Commission o

COMMODORE 64/VIC 29

resident 5049 88566

Plus Games Plus Games P



Once again, by popular demend, the heeseurres Halshals! I have some very disturbing news to

report test it have been moved off Who's dun if, you cry. Bit buffy Your Computer, That's who A Holshot ophile came rushing over to see me with the offending issue t nearly build into fears "Send m your secrets, high scores and maps to Hot Shots" runs the second-hand blurb Ffamin' cheek Slift il does prove one thing that Commodore User leads while others tollow. Reports of large groups of Commodore User tans besieging IPC are untounded

Moving swiftly on to legat matters now Elife have taken out an injunction to stop Alligata from setting Who Dares Wins (reviewed somewhat un lavourebly last month by our Ken) the arcade same Commando They claim Albarta s I file is an intriprement of copyright. Alignal have responded by confesting the case. More from

your legal beauty next time t m going to have a little fun now. All this stuff about the softwere industry struggling to keep its head above water and pay the taxman etcisie toad

of flannel. A probing look around the car back at the PCW Show was enough to make it perfectly clear that a lol of people in this industry are doon what the software bosses are driv ine around in

Geoff Brown Used to drive a black Porsche - has now lashed out £63 000 on a new Ferrary His pood lady wife Ann drives a BMW She bought if all the same dealer as Gramins' tan Stewart bought his and got first choice of colour. However if was only a week before it was off the road "Where's you car?", asked a lowly employee "Ex it's having a ser vice", says Ann hashiy She had of course had a little dairy. She'd taken the side off d

David Ward: Ocean's boss is a conbecause they own exclusive rights to firmed. Porsche man it strems Though he's had problems in keeping hold of it in the past. It kept celting nicked. Once he garked in the bank of The garage and put an Escort in the way only to look out the window held an hour later to see it disappearing down the most

Another Porsche owner is workind Ultimate's John Lathbury He has a

ing very well hank you out of us. So t. cheft is repulled to have hired a red. edapted lip run on carnel dung in facthought I'd give you at the lowdown one to impress a young lady he was the drives an ok ya Escoyt Cabriniet

our business, you might esk? "It leave stickers are untouncied The answer to Virgin supremo and suppose it's because like the industry they don't take the bus or the tube a great play of throwing his Ferrari cheap cars' kees eround the place. Since the company's demise (triagine Ltd, that is, megabucks go from all those games

now drives a Fial Uno How are the pocket money muchly fallen be driving around in one of Alligata's pile have paid up rather than have me motors, but the software world's hard man drives an Escort estate with

103 000 miles on the clock. He must, software company boss described his bus all his programmers to and from stuff thus "Most of our stuff on the 64

blue one, registretion JLSS Surely he doesn't pollute the air with Me'bourne House's Geoff Heath has a carbon morecude? You might expect while one with a telephone in it. Lard him to drive around on that silly bike of the Rings programmer Philip Mil- of his or a Morris Minor specially (that's the soft top one). Reports that With this tove offair with Porsches m. it's plastered with make love not war

Finally good of Mastertronic SDP publicist Mick Alexander Welt t what do they all drive to work in? No they go very tasl to: a white and then. Someone told me if was Rollers alt gel clapped out " Nick Alexander round but e spokesman said the best drives a BMW 628 not a 2CV as you. They could offer wes Martin Alper's

mushi imagine Talking of Imagine, Mercedes, Otherwise it was Corbinas Bruce Evenest, one time meraging and Toyotas all round "Whal do you director of the company, used to make expect?" he said. "Cheap games — So now you know where those

not the one limked with Ocean now) he you've bought with your hard earned

tm off on holiday again on the pro-You'd expect Elite's Steve Wilpox to leads of att that blackmail money peospill the drift on them. Let me leave you with this parting (Hofishot Which has been rubbish. No answers on a

What of our good triend Jelf Minter? postcard please to Some people will do anything to get their names in print. Trendy SDP voting Nick Alexander (he's the one in black furry boots) dressed up his Virgin Games colleagues as burnaes to stustment their takeover of Rabbit Software. Are they loones or are they loones? Maybe so, but not





From the black and white pages of a dusty book emerges the colourfull and gripping adventure of



NEVERENDING STORY

Save the world of "Fantasia" in this thrilling adventure. Cast as the hero Atreyu and aided by Falcor, the Luck Dragon, you face the trials and terrors of the ever consuming "Nothing".

Enter the quest in this richly illustrated and highly imaginative computer movie.

COMM. 64 9.95 SPECTRUM 48K 9.95

6 Central Street, Manchester



95 ATARI AMSTRA

Telephone 061-832 663

THE COUNTDOWN HAS BEGUN

CSIECAL

From DURELL

• THE • HAPPY • HACKER •

Hacker the game

by Ken McMahon

If you disapprave of the crazed and feverish nacturnal habits of the true hacker, or you con't even manage ta page The Oracle, Activisian's new 'Hacker' game cauld be far you. Break those security cades without breaking the law—and all far 29.95.

Not supprisingly, the game is nothing like a triughforward backing simulation, but Activision have incorporated elements of the backer's att into the general sections. Once the game has loaded you are saked to ogo on and give your persowed. Thus, of course, you don't know. Fortunately this is most too much of a problem as, if you get it wrong, a system error lets you us anyhow. If only it were always that easily.

By means of pecking as messages intended for legitimate system users only, you discover that you have penetrated the security of Magina Ltd. – a company involved in some pretty shady dealings.



Another message flashes onto the screen and you discover that a screet document constaining densith of Magma's plans for world domination has been stolen and is in the hands of spies the world over Your park is clear. You must ravel the olohe via Maema's water of subterstancian.

Travel Magma's system of underground

runnels and by means of hisbery or barter obtain the pieces of stolen document. To complete your mission these must be handed to Agent Levy of the FBI who will then be in a position to thwart Magma's plan for world domination.

This is where the fine starts. Using the Subsertnessen Remote Unit you must navagare a course through the tunnels to the major class of the world. Having arrived at one, you can pop up to the surface and then negotiate with the spy for his piece of document. In Switzerland he demands "Que power-worse mofilire pour mon morecast de document" Luckly, you understand French and this year screpts.

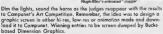


Choose your home position before starting the musion.

the mussion. Can be date officer you the deed to a Sweet chale and a chroscopreph it wouth take in the part of the chale and a chroscopreph it wouth take in the part of the chale and a chroscopreph it wouth take in the part of the chale and take in the chale and the chale and take in the chale and the chale and take in the chale and the chale and

name to the model number of your subterranean unit, but the information is always there, it's up to you to find it. Hacker is an extremely enjoyable game, very well implemented and done with a lot of imagination. If the number of 'closest backers' out there is anything to go by, it deserves to do

Compunet Art Competition Results



And the winners are 'Chris and Anthony West for their low-res "Moanbugs", Rich Hare for his hi-res "Necromancer", and Hugh Riley for his animated "Jogging", Prizes included a framed partrait of the oforementianed

OR... MADE BY ALIEN



eatures: DISR TURBO - 6 times fas

SPECIAL INTRODUCTORY PRICE

Don't wait for your friends OROER ONE NOW!!!

Under Orce wow...

Just pay the difference if you reorder within a month

U.K. ORDERS Barclays and Accesscards of Cheques should be made out to H & P Computers, 9 Homboarnwalk Withom Essex CM8 2 SZ England, Telephone: 0376 - 511471.

Convenient St Garner by Favoi Sirgui Size 211 x 134mm 1985s Size 211 x 134mm 198pp II 1 ob1498 E1995 — ribbing fall associ grantics. 1 84 964m1 cer dodge air affact, turngrass ats All am seconganita; by ocras. Published 45 0505. Gar not a 12-95

Social New K. TEMBER 1904 For shilldern, Intil been starth 11 the between the Elicaty Illustrated with wideling. The phing such 1 complete game. Purposters at \$2.05. Our once \$1.00.

Published at 1239 Over price 17.00 s.
The Servagible 5 of the Flore
10 Gloved Highthers 1 nd Lie Flore
10 Gloved Highthers 1 nd Lie Flore
10 at 70 s. 10 forms 17.00 s.
Centris infall the merical document — 1 technorid seer
10 at 10 and 10 s. 10 s.
10 at 10 at 10 a

The Working Commoders 64 to Good Lawrence RIDE ELF X YSS/mm 17621 A 1994 pt of precision sub-rit Elson and programm for finite strenge. Process indication and primas of plus includes word processors and leaf address 1919 Page 41 ELS S Or prior (225)

Advanced 1 regramming Techniques on the Commercian 44 by Oseth Lawrence Sign 531 x 150mm 114er

restricted.
Positified at \$5.95 Gur price \$2.95 Everything you need on a thirt out double-sided global card, 15 paners 21st × Manus Published at (1.9) — Dasprice fits

Programming for Education on the City So, with Science and Patent Hall Size 228 × 160mm A Tacidonic Noi privarry micrositem — weing in MicOuVII Acquirects programs can be lineary sciented. Microsited graphing. Published at Oct 19 - Our price \$2.25.

Art II C84 800k3 (215 All Tight 600k3 (we C81) C831 (1195 Mrs. Acobes online 20.00
Nrs. Acobes online 20.00
Nrs. acid CMD value Official orders
town schools 431 welcome —
115 investig objuga 2111

The Complete 1 to Bern (1111 awales) by Estor Sermod and Kasis Berger loss 1 tl × 104 mm (187)

If a the serious programmes complete 1 sussembly of all nOM contines allow complete effect out throughout a first. Our year 22.20 Ye displace by 1 on Hampiles

SU2 279 X 13-Hall Higgs Now be generally a start Hillings — 1 much and Galled Desting 14 link (may) 66, billing, entaining 1 nd 30-01301 pt. 15 links 1 mg/s med 1 statement 1 155 th. Day write CD 86 Vic Francisco Vol. 1

Vic fingerine Viol 1: to Ecch Temporary to Ecch Temporary Elde TEE x 154-min 195ps: Unify1 and Inservating 1-distributive recursing music paints of infects province and humbonal groupmen. 34 ellegation Management of Elde Congress (279)

Peells for other mobbles at some trauprises— set to built list fibration set a feet a song of decimals obtained and combiner address. Our calledges in 170, 36 content and combiners.

AND, Millyrook Part E. Southtropton 901 LES

GREENWELD ELECTRONIC COMPONENTS

BOOKS - ½ PRICE OR LESS!!

| COMMO | DORE | SOF | TWARE SPECIAL | ST | s | |
|--|---------|---------|--------------------------------|-------|-------|-------|
| CB4 BOSINESS | 887 | 200 | CSS SEVENTIMES | | 120 | - 7 |
| | | | | | | |
| Calc Result Store: By Estade | | 2000 | Dragmanold | | 15.95 | 11.0 |
| SHA Darlance by Sinley Spec | of 2010 | 11 50 1 | July coloni IIII | 969 | 75 99 | 155 |
| Paciet I Service (I Is Person | 51 15 | 66 111 | Tearly Protects* | 35.76 | 15 95 | 15 5 |
| Seeble H In Presser | 35.35 | 65 1111 | Note: 1 | | 11 55 | - 111 |
| Lawrence to Property | 25 52 | 26 111 | Marrie on the Wavefront | 200 | 8.0 | 1117 |
| needs Interest 36 53 961 | | | | | | |
| | | | | | | |
| YARD THEO PAGE Barrer | | | Seven Chas of Gold | | | |
| ing by Fusped. | 1966 | | | | 11.95 | |
| Secretary Secretary | | - | | | | 11.1 |
| | | | Image Mad | NO. | 10.15 | 111 |
| personne Y Land School's | 1.00 | TEST. | Signs 11 | ETH | 19.16 | 171 |
| | 17.90 | 1130 | CHE SCHIENCAMES SPOAT | | | - 6 |
| | 27.86 | 11 95 1 | Lines to 11 | | | - |
| | | | Fried in 11 | | 11.15 | 33 |
| | | | Bridge I' | | 11.22 | 12 |
| | | | | | 11 15 | 12.1 |
| try Nashrie (5 ii pr) | 935 | | Schlin 1 Der Oct | | 1.15 | 12.1 |
| HILLSON SHOWS HOS WAY | | 211 | | | | |
| | | 12.15 | Ironathic Maurer" | | | 1; |
| the Leady | 14 15 | 12111 | Mercency" | BOY | 9.35 | 11 |
| | | | Bill Learn Sall | | 5 55 | |
| | 1 15 | | Prisat Contraction Set | 100 | 111 | 11 |
| others 2d Traffic Cornell | | | Rose Secretor Sec | 114 | 113 | - 11 |
| netr lawer? #5 | | 12 55 : | Reside Sett Francisco | 115 | 213 | - 83 |
| 6 Mey Err Br | 3V 135 | 5 55 : | Reser and the Try Majors Party | | 5 15 | - 51 |
| for BI | y 531 | 5.35 1 | | | 2 55 | |
| Heye Plate Sendors 1 Heek Plate Sendors 1 | 5111 | 44 111 | | | | |
| solic Lebit Nevtrin I | 311 | 05,881 | | | | 2.5 |
| II Right Simplety To Suff | 12.55 | 450 | Set 30 Sey 8" | NC IS | 1.58 | |
| | | | | | | 9.1 |
| EA STILITIES CENERAL | | CES | Will are Woodle" | AC'R | 12.18 | |
| | | | Workly . | 110 | 1 11 | - 11 |
| de . | 111-512 | 12,110 | Ter & Kang Ey | HIP. | 8 95 | - 24 |
| sed Carylla" | E: 98 | 31885 | "SPECIAL PRIN SAME WITH INSI | | | |
| CO Specification Code (Code (C | 3411 | 75 75 2 | | | | |
| NOVE CASE IT IS NOVE CASE IT IS | 11.55 | 12151 | LTG GENERAL | | | - 51 |
| secon (free page) | 40.55 | 11.511 | 3-14-25 | 100 | 700 | - |
| | E3 75 | 11885 | Driev Temme's Sta Sweets | Mind | 344 | |
| | H 20 | 1110 | Delegra III | | 122 | |
| 14 HATCHARS | 38.77 | 830 | Sedeman | | 133 | - 11 |
| A4 MARCHINE | | 100 | The lines | 169 | | 111 |
| archive 2 courses | 1590 | P11 | Tends | 119 | 6.05 | 11.54 |
| perdont," by Aerog contains to Serve (serolici) | 4575 | 47 50 s | | | | |
| | | | | | | |

Printerior to terry learning \$1.50 \$5.50 to Grand the Contraction of a Contraction on the Contraction of the HUNCEFOS SACIES TITLES AVAILABLE - 441 AT DISCOUNT PAINTS "MOST DIE PLESH with CI 28 tribs sweige - ALL with provide discounts to CO4"

Please send change for our poregulate list plants which continuous at 200 Durante UK please instaled 8. Presse withinfe 50g tas Pleast and Easking Saved ordine laso vite 6.200 Durante UK please instaled 6. Sax Propsile Selection (Saved Saved Sa UK SOFT CENTRE LTD 1001 PO BOX 38 DUNSTABLE BEDS LUG 2NF DUNSTABLE (0582) 607929

LOGIC SALES LTO.

MICRO COMPUTERS, SOFTWARE & SUPPLIES 6 Midgate, Peterborough, Cambs PE1 1TN Telephone (0733) 49696 Teley: GECOMS G 8951 182

THE GREATEST SALE EVER Pinbali Speciacular Le Mans Jugiter Landing Music Communit \$2.50 (and

NO 3 Sociale Tran Kingdom Variey Kong ES,95 on £2,50 each No. 4 Poytron (Beyond) Par Warsios (Beyond) £4,95 os £2,95 each No. 5 Artic (Beyond) Anial Mil Robot £4,95 os £2,25 each No. 6 Articipital Encounter Lazer Zone £1,95 or £2,00 each Pack No. 3

No. 8 interport lightcontext Later. Joine 8,458 of 12,500 unc. Place No. 3

7. Place 10 interport lightcontext later lightcontext later lightcontext later lightcontext later lightcontext later lightcontext later later later lightcontext later lat

INDIVIDUAL SOFTWARE TITLES INCLUDE

Einstein British Briti £12 45 £12 45 27.95 Commodore Messc Names 27.95 Keyboard 27.95 Seven Chies of Gold (date) 21. 27.95 Woo Trackelshall Joychola 22. 212.99 Add 60b los pāp on any above 27.95 odes 27.95 Vie 20 Programs £14.85

\$5.95 Programmes Aid (carridge) \$2.59 \$7.45 Sargon II Chess (carri £10.45 Simplicalo (disk) £5 95 Add 750 p60 for above neme £6.95 97 95

MC CONSULTANTS

| | | DIP. | PRICE | | | NR.P | PRICE |
|-----------------|---|-------|-------|-----------------|-----|--------|-------|
| Micori . | B | 99.95 | 36.50 | Duick brown for | D | R9 50 | 25.50 |
| Wordowit 40 | R | 13.55 | 25.50 | Trienion 64 | Ð | 29 85 | 12.50 |
| Easte Calo | B | 49.95 | 15.50 | Practible | D | 44 50 | 17.50 |
| Dany | R | 29.95 | 11 59 | Practicals | Ð | 44.50 | 17.50 |
| Cato Result 64 | C | 99.00 | 36.59 | EasyScr@l | Ð | 75 00 | 29 50 |
| Papicalo | C | 38.95 | 15.50 | EasySoul- | D | 50 50 | 24.95 |
| Gook brown fox. | C | 63.90 | 25.50 | R=B0A | D=1 | MSK C= | CASS |

Send your Chaque/PO to

MC CONSULTANTS

PO Box 514, Dunmow, Essex CM6 25H Onergana orders walcoms add \$2.55

Also Games, Utilities, Educational and Books please send large SAE for lists

ADVERTISERS!

Can you afford to place your Christmas budget with anything less than the biggest-selling Commodore magazine in the UK?

Space is still available in our December and January issues, so ring Sarah or Gary on

01-251 6222

Build Your Own Adventure Part Two

by John Ransley

Did you type in the two program sections we served up last month? Not far to go now, just the final section and you'll be up and running with your very own adventure - and you'll know how it all works.

If you've already entered Parts I and 2 of The sample adventure listed in last month's issue, you'll have had a chance to test ont the modules which create the 25-location map that is the besis of the perilous puzzler we've named The Phantom of Priory Court, allow you to explore it, and to pick up or drop any of the nine moveable objects you'll find dotted around the place. Also included in the first chank of the program were the Inventory and You now have only to type in Part

Three of the program to get the full adventure up and running. But before explaining this final module to you. I have to take a brief squat on the pentient stool Last month's listings harboured a couple of bugs which (unless you were hetter at spotting and correcting them than I was) might have triggered some exasperatingly inexplicable glitches.

the four points of the compass will print to the screen, and ammediately below them will appear the values currently held in each. Those values represent the number(s) of the location(s) to which you can move from your current position. You should compare the legal and :llegal moves indicated by the screen display with those shown on the master map printed in last month's article - and of course correct any discrepancies. Once you're satisfied that all is well, you can delete lines 1650 and 1655 altogether.

Secondly, I commutted the programmer's cardinal ain of attaching the same label - W - to dynamic variables serving completely different nurnoses. W should always represent the grid number of the location West of your current position. Thus, if its legitimate value is altered in

lines 2240-2260, weird things can happen to the legal and illegal moves declared by the screen display whenever you TAKE. GET, DROP or LEAVE an object.

To cure this fault, simply amend those lines as follows: 2240 FOR WI = 1 to 1 FN/IS) 2250 IF MID\$(\$, WL,1) = " HEN

2310 2260 NEXT WL

Finally, not so much a correction more of an improvement. In a skeleton adventure such as this, player input error trapping is cut to the minimum. In practice, this can create hiccues when inputs are nearly right Take this example. If you move into

location 12, you'll be informed that you're in the secretary's office, where there's a message pad in view. But entering the

Spot the goof

First, in line 3410 the variable W should hold the value 16 (and not 11) as follows: 3410 N = 12;S = 0;E = 18;W = 16;GOTO

If you don't make this change, you'll find some very strange things happening to the program's sense of direction when you reach location 17.

As this goof proves, it's very easy to make typing mistakes when entering the alternate lines from 3060 onwards which hold all the values that determine legal and :llegal moves - and very hard to spot them even on checking and rechecking a

Learning from my own errors for once. I've devised a simple check routine which you can slip into the program just for the purpose of satisfying yourself that the variables N,S, E and W hold the correct values at each of the 25 locations. You can add these couple of lines now to check that all is well in Part One of the program 1650 PRINT "N" "S" "E" "W"

1655 PRINT N,S,E, W

When you Run Part I (with or without Parts 2 and 3) the variables symbolising

FINAL PART

1280 REM###SET STATUS OF CHALLENGES### 1300 DC=1:PW=1:HC=1.DB=1

1318

1529 PERMANERY 1E LINCRITON PRESENTS A CHRISTINGENAM

1598 IF CP= 6 BILD DC=1 THEN 3628 1690 IF CP=15 AND PW=1 THEN 3630

1610 1F CP=20 BND NC=1 THEN 3640 1620 1F CP=22 FND BD=1 TNEN 3650

1770 PEM###FEM BLOCK MOVE IF CHALLENGE EXISTS###

1790 1F CP=6 AND DC=1 THEN G0TO 2040

1800 IF CP=15 AND PW=1 THEN GOTO 2040 1810 IF CP=20 AND HC=1 THEN GOTO 2040 1828 IF CP=22 BND BD=1 THEN GOTO 2848

2020 PEMBERRIOCK ESCAPE EDON CHAILENGEER

2040 1F I\$="N"OP1\$="S"OPI\$="E"OFI\$="W"THEN 2060

2050 GOTO 2100 2060 PRINT"NOT YET YOU DON'T' - GOTO 1740

2110 IF I#="N" THEN 2570 2120 IF I#="0" THEN 3770

2140 REM++CHECK FOR SPECIAL COMMANDS+++

apparently reasonable command TAKE MESSAGE PAD (instead of the acceptable TAKE PAD) will produce the error prompt BAD SUBSCRIPT ERROR IN (LINE) 2680. That's rather tough on the player after such a near miss To soften the blow, add the following additional line to the original Part Two:

2675 PRINT NOS" ISN'T QUITE RIGHT.": PRINT "TRY SOMETHING ELSE.":GOTO 1740

The final stage

Having cleaned up the act a little, now's the time to key in the final part of the program which comprises the modules that handle the all-important bazard routines which are at the heart of the challenges set in any adventure.

The Meanons of newtoness.

The Meanons of the Priory Compliance, used from ringle other forms of the way of the player properties of the way of the player properties of the computer room, there's lifetimes of the computer room, there's lifetimes action – two challenges in fact – whale in the staff cauteon (location 200, there's a bouncied after to thewar Family, a possioned drinking founting swaits the unwarry in the corroller at location 18.

unwary in fice for rador at Ochton 19.2. We must occlare for Blag 1 with extart of the game that still flour of these challenges are livel, and this so done in fine to live 100. The other control of the control of th

Control then passes to lines 216-0-2200 to sfit the imputs offered at challenge locations At location 20, fix example, the key command in THROW JOYSTICK. If precisely those words are input, line 2960 then checks that a player does in fact have that object in his inveniory (now you'll appreciate the purpose of the 1 value awarded to carried objects in the control of the command of the control of the command of the control of the command in the control of the control o

In the computer room — and to salve the game — it's necessary first to FIX FUSE (having already taken the fusewire found at location 17) and then to LOAD DISK. Again, you should have added the disk to your inventory at location 25 (having first zapped the crazed saurer, if you took the dangerous route through the canteen).

Help at hand

For a little sidded interest, I've added finally a simple Help module offering some ob-to-subtle hints. In this sample game, most of the challenges are stanfield? you say the right words while carrying a particular liter. For your own adventures, you can turn the tables by making it impossible to move into a certain location, for example, unless you DROP a certain tiem.

Expand your game

There's no limit to the extent to which you can build on the sample framework of the demo adventure. Indeed, there's a lot of fun to be had from developing extra



features of gameplay which you can easily bolt onto this skeleton program in the form of additional modules

For instance, you can conclude certum location descriptions with a Goards to a routine that generates a sound effect, a snatch of music, or some simple but colourally graphics. For the laster you'll need to way the screen clean with a CHERI [47] on the VIC 20 and 84 or CHERI [47] on the VIC 20 and 84 or a continuous of a certaining display — though the result of the continuous of a certaining display — though the result of the continuous of a certaining display — though the result of the continuous of a certaining display — though the result of the continuous of t

Incidentally, Vie 20 owners may need to split a number of the location descriptions and other responses included in Phantom over two PRINT statements (perhaps requiring extra program lines) given Vic's smaller number of characters in screen width.

You may also like to keep track of bow long you've spent on any one attempt. Do this by declaring T15="000000" to an early program line and adding a line such as this

2125 IP IS = "TIME" THEN PRINT "YOU'VE SPENT "TIS" ON THIS ATTEMPT.":GOTO 1740 TI\$ prints out, left to right, bours, manutes and seconds elapsed. You can improve on this raw material by splitting it with LEFT\$, MID\$ and RIGHT\$ and dropping colons, for example, between the

three pairs of digits.

Adventure players also like to keep tabs
on the number of moves they've made.

This is simply a matter of adding a routine
like this one to the skeleton:

1410 NM = NM + 1 2128 IF IS = "*" THEN PRINT "YOU'VE TAKEN "NM" MOVES.": GOTO 1740

Thus, touching the multiplication symbol ("*") key and Return will display the number of moves made in any one attempt, and this total will automatically update every time you move N.S.E. or W

Read all about it

If this brief introduction to adventure programming wheth your appetite and you'd like to learn more about the techniques which professional programmers use, there are a number of Commodore-specific books on the subject. I suggest that you browse through a number of them before making your final chance because they vary greatly in terms of the degree of Basic programming knowledge they presume of the roader

Two excellent primers are Commodors 64 Albertures by Mike Groce (Sumshine Books, £595). Even simpler (and cheaper) is Usborne's colourful Write Your Olem Adventure Programs (£1.99). Pete Gerraid's Exploring Adventures on the Commodors 64 (Duckworth, £6.95) is also worth considering.

For the more confident programmer, Adventure Games for the Commodore 84 (Collins, \$6.95) details advanced techniques such as full-sentence patters and text compression, and Compute's Gaide to Adventure Games by Gary McGath (Holt Saunders, £10.95) is also crammed with hints and inspiration.

If you're still not convinced that proudup, top-down programming is for you, there's shower The Quall (Girlori, £1.6.79), there's shower The Quall (Girlori, £1.6.79), there's shower the Quall of the Companion of the opposition of the Companion of the Quall of the graphic solventures incorporating more and sound efficies which can be copied and Run without The Quall in memory. Chart and sound efficies which can be copied both produced on The Quall, said the surface of Humpstead and Terrementous of Molbourne House. The Illustrator, and Molbourne House. The Illustrator, and Hobbit sayle happer graphics, is due you

soon.

So there you have it, a complete adventure that you can play around with and expand to your heart's content. Go on, he adventurous.

2160 IF Is="FIX FUSE" AND CP=6 THEN 2850 2170 IF Is="LORD DISK" AND CP=6 THEN 2870 2170 IF Is="SWALLOW ANTIDOTE" AND CP=15 THEN 2930 2190 IF Is="THPOW JOYSTICK" AND CP=20 THEN 2960

2159



FINAL PART (continued)

```
2200 IF I$="USE TORON" AND CP=22 THEN 2990
2550 REM###PESPOND TO NELP REQUEST###
2569
2570 IF CP=6 THEN PRINT "IF YOU'VE BLOWN IT - FIX IT!" GOTO 1740
2588 IF CP=15 THEN PRINT "CAN'T YOU TAKE SOMETHING FOR IT?" GOTO 1740
2590 IF CP=20 THEN PRINT "PUT A LITTLE JOY INTO MIS LIFE.":GOTO 1740
2600 IF CP=22 THEN PRINT "CAPRYING NOTHING LIGHT?" GOTO 1740
2610 PRINT"SORPY - CAN'T HELP, " GOTO 1740
2820 PEM***CNALLENGE ROUTINES***
2850 IF PLX(7)=-1 THEN PRINT "THE C120 BURSTS INTO LIFE," DC=0:GOTO 1660
28F0 IF PLZ/7)=C-1 THEN PRINT "YOU DON'T NAVE THE FUSEWIRE, " GOTO 3770
2870 IF PLX(9)=-1 AND DC=1 THEN PRINT "LORD A DUB COMPUTER?" GOTO 3770
2880 IF PLX(9)=-1 BND DC=0 THEN GOTO 3698
2890 IF PL2(9) O-1 THEN PRINT "YOU DON'T NAVE THE DISK."
2909 GOTO 3770
2910 IF PL2(7:=-1 BND PL2(9)=-1 THEN DC=0:00T0 3690
2930 PRINT"INE ANTIDOTE WORKS, " PW=0 DOTO 1660
2940 PPINT "YOU DON'T HAVE THE AUTIDOTE, " GOTO 3778
```

2960 IF PLX(1)=-1 THEN PRINT"GREAT RIM: HE SLUMPS TO THE FLOOR, ":HC=0 GOTO 1660

2990 IF PLX<2)=-1 THEN PPINT*NOW YOU CAN SEE THE WAY OUT. *-DB=0 GOTO 1660

2970 PRINT'BUT YOU BON'T HAVE THE JOYSTICK, "'GOTO 3770

3000 PPINT "YOU DON'T NAVE THE TORCH. ":GOTO 3770

2988

COMMODORE 64



"BLACKYCHE" recommended retail price #9.95 in: VAT.
Available from W.H.S'HTHS, BOOTS, J.PLENZES, WOOLWORTHS
and all good software retail outlets. Also available from
ULTIMATE PLAY THE CAPIE. The Green, Ashby-de-la-Zouch, Leicestershire LE6 5JU
(P&T are included) Te1: 0530 411480

Precision Software's

for your Commodore 128



The Intelligent Word Processor

Trevor Doherty, Commodore Horizons, July 1985

What is Superscript?-Superscript combines word properties, spelling checker, palpulator and mailmente

350 000 codes worldwide, so you know you can rely got

the popular Feey Script and Fasy Spell programs that have sold more than Simple for the beginner If you are a newcomer to word processing. Superscript a simple command manual

command is a single word, and for each command there is an extre kine of

Once you are more lamitus with Superscript, you can bypass the manus Powerful for the experienced user

Superscript also given you the ability to cut work down to a revisitumbly storing own opinhund sequences or lest on single keys. This means that with a single

Edition options

Superscript gives you all the edoing options of a business-style word processor will full block manipulation for cut-and-pasts, overtype or tool organization modes, search LOADS

earch, case shifts for single words or larger blocks of text. And much more Good with sumbers

not a complete set of calculator functions can be used miseactively or you can operate on numbers from the fest of your document. Apart from the usual methy makes it works and from the session of your document. Apart from the usual methy makes if two tops side add, subtract multiply divide, and seconfedes, you

Good with spelling, too

The built-in spelling checker goes right through your lax! checking the unique w The built-in spalling checker goes right through your lexit checking the unique works against his dichonaries, and stopping alleach one if does not recognize. You have the leabon to correct the error letter the new word or sprice at Superscript has its own.

Mailings with Superscript

Parsonatized mailings are easy with Superscript. You can enter the date manually or

Attention Easy Script users !

Il you re an Favy Screet user then Supercrapt to the obvious choice. With its

Superbase

The Programmable Database

For sheer quality and professionalism,

Easy to act started ne about Superhase is the superb 230 page dwiler s

mgrigati The transferent exchanges have first time and excernational users with from first stacs

Easy to use -

With the levertimplace, voy can then use Superbase a built-in commands to anile?

The hidden power-

This capability turns a straightforward data management system into a area database of incredible power.

Developing complex applications for yourself becomes a realistic proposition with your hardwers configuration as the only limiting factor.

The integrated office-

Superscript and Superbase will actually load into the computer's memory together This means that you can exact heliagen Superbase and Superacripi of will passific

Into means that you can switch between pulperouse and objects of it is well pro-information between the two and working on your filing system and documents Bearwoor convitation and gin the thousands of satisfied Superbase users

- Entere machine-language program is marriory-resident to need for swapping or reloading
- Bullt-in single drive back up utility
 State-oil-the-articlescip for last retrieval any record in less than 0.3 secs.
- Data-types include calculated result for pri-screen field recalc

Also available so Commodore 64, Plus 4, Atari \$60XL, Atari 138XE, Apple i/c and Apple i/a INFORMATION/ORDER FORM



Suitable for all ages, Supertype guides the techniques. All the lamily can learn to louch type all home acquiring a valuable skill.

An endiesaly patient fullor helps you to



128 98 95 Superbese Supertype (Diek) Supertype (Case)

2 rol D 9 supperbeaches Chargerry Access [Vos

Name

OR CALL US ON 01-330 7166.

150XE

Books Books Books Books



Screen Shot Graphics

Dorling Kindersley's Screen Shot Jearn how sputes are made up books incorporate a novel, but and controlled, how to code effective method of teaching pro- them manually and store the gramming on the Commodote data in memory, how to switch 64. Each book is actually illustra- them on and off, move them ted with screen shots, not only of around, colour them etc. You are the program listings, but of their also shown how to include results. The first two books in sprites in cames, with a few ey. The faurth, if I'm not mistaken, the series - on Basic pro- amples thrown in. gramming - were a little disappointing, but books three and basically a listing for a fauly Kernal and Hardware Revealed four warrant a better reception good sprite editor which enables is, like its companious in the

Both are concerned with the 64's graphics capabilities in slightly different ways Book three deals with high resolution displays, whereas book four is concerned solely with the design and programming of sprites.

Book Three contains a number of machine-code programs which add nowerful haves manhacs commands to the 64's Basic. The machine-code piograms are entered in the form of a simple Basic loader program which from data statements. So you don't have to know any machine time. Much less tedious than the language and indeed no attempt felt tip and back of an envelope programs where a full explanation is given of what's going on.

Having entered the routine programs. which plots a single pixel at any specified point on the hi-ies splites is only half the story screen you can include it in a program which draws realistic looking planets. Interesting par. The second half of the book is a terms and landscapes can be directory of over two hundred created using the line drawing

butious as you progress, inclu- of any artistic talent whatsoever, ding circles and aics, shape fill- this is the place to look. ing, pattern filling, and user defined graphics. The book also contains a number of useful utilities like a character designer graphics skills to their pro- the functions of the hardware and graphics edger

Book four - on sputes - takes a different approach. First of all simple splite programming is covered with the help of a few Basic piperams. Here you will

as well as ensuring mistake too on how they work proof program entry. Ken McMohon

a Screen Shot progromming Series

- Books 3 & 4 by Phil Cornes
- e Dorling Kindersly Lad 9 Henrietta Street
- Cavent Garden London WC2E 8PS e £5.95 (eoch) e Two excellent

grophics monuois

Getting Technical

in the 'revealed' seizes by Nick The next section of the book is Hammshire. The Commodure 66



POKEs the code into memory you to desum and store up to 32 series an excellent and informasotites in memory at any one tive book Not exactly what you'd call a bedtime read, the book is packed

is made to explain the inner method! This editor has all the full of the kind of information workings of the routines. Instead, usual features including the most, that's more useful for reference they are incorporated in Basic useful of all; a facility to turn purposes. The introductory chapter is entitled 'miside the your sputes into data statements for inclusion in your own Commodore 64'. I've seen that a lor of times before, but never Knowing how to program seen it explained in such technical detail. As well as circuit though. Probably the most difdiagrams, there are descriptions of the main chips such as the ficult aspect is designing them. 6510, 6526, and the SID and

sprite designs. So if you're stuck Subsequent charaers deal with for a space ciab, lost for a furnar serial communications, the The subjects become more am lander, or like me, samply bereft eassette unit, the user port and ingerrupos. If this seems a strange mix of subjects that's Both these bnoks are because they are the main areas highly recommended to in which the 64's KERNAL anyone considering adding system operates. In each chapter

geamming repetnire whether and software are described in

VIC chips.

beginner or experienced, full. There are disassembly The 'Screen Shnt' format listings of all the Kernal funcmakes for easy comprehension tions together with documenta-

The book is more than a collection of dugrams and datassembly listings though. The text, as well as supplementing the technical information, goes over some interesting and useful subjects. The cassette chapter includes an extensive explanation of how data is recorded, how turbo loads work, and includes two first load listings you can incornorste into your own puntrams The chapter on the user port shews you how to book up a speech macessar chin

In get the most put of Kernal and Hardware Revealed it would certainly help to have a working knowledge of electronics, or at least know one end of a soldering iron from the other. However it will still be a useful book for those who went to know their machine inside put and back to front. The book is written for the most part in a highly technical style and a fair amount of knowledge on the part of the reader is taken for granted. It's not therefore a book I'd recommend to the

inexperienced. Ken McMahon



- e The Commodore 64 Kernal and
- Hardware Reveoled by Nick Hompshire
- with Richard Fronklin and Carl Grahom
- e Collins **8 Grafton Street** London W1
- e £10.95 · A useful book for the experienced

progrommer

Applications Applications Applications Applications

It's no use saying the Commodore 64 is just a toy. The amount of business software now available for it (stock control, accounts, databases, wp. spreadsheets) prove that the 64 is eminently suited to the small business or retailer. With most of those programs now being duplicated and enhanced for the new 128, the potential for cheap business computing grows even larger.

But the problem remains one of software support. You can't expect your local 'games' supplier to spore the time or hove the experience to help you choose a database You can't expect a hard-pressed software house to sort

out your problems - or can you?

talk to is called Jonathan Donn

 Audiogenic have a snire of three programs for the business user, a database, spreadsheet, and word processor Micro Magpie, the database is good value at £39.95. The program is particularly user friendly, involving the use of pop up menus to implement the various functions. but at the same nme allows the use of ourte sophisticated file management techniques. Micro Storft incorporates all the usual functions you would expect to find on a spreadsheet You can define column widths for text and arithmetic input, perform calculations on columns, and change various figures to carry out 'what if' type analysis. Once again it's tust £19 95.

Dataview Wordcraft's Wordcraft is a fairly basic word processor although it

Mister Buyright

A guide to buying the right software by Ken McMahon

The Software choice

I don't propose to go min too much detail about individual software packages as this information can be readily found elsewhere (see for example 'Top Ten Database' and 'Top Ten Word Processors', Commodore User September' October issues) Rather I'll be looking at some of the different programs on the market, finding out where you can get hold of them and what sort of advere is available to help you make the right choice

Often one of the most important factors in deciding on a piece of software is the kind of back-np service provided by the retailer or distributor Business software, no matter how user friendly and well documented takes a certain amount of time and effort to become well acquainted with It's comforting to know that if things start to go wrong i here's someone around to offer a few words of wisdom and put them right

• Precision Software: Precision market rwo husiness packages, a database and word processor called respectively Superbase and Superscript. At £100 Superbase is one of the most expensive darabases around, but then it is probably one of the best. The good ness is that it's just been reduced to £79 95. At £69 95 Superstrust is a good value professional word processor. One of the more useful features from the business point of view is the mail merge facility which enables you to send standard letters to a number of different addressees. The program includes a spelling check facility complete with thirty thousand word dictionary, but in practice this is technously slow for all but the

shortest documents

Both programs are accompanied by excellent documentation in the form of a ring-bound manual which takes you through the simplest operations to the more elaborate ones m a tutorial style Should you encounter any problems though, Precision's technical support department will be happy to put you straight. The man to speak to is Brian Leighfield, Superbase and Superscript are also available for the C128, taking advantage of the wider screen format. Prices are £99.95 and £79.95 respectively

 Viza Software: Viza's database. Visastar comes in two flavours. The XLS version which is £129 95 has two advantages over the cheaper XL4 at £99.95 Firstly it gives you an extra 4K of memory to play with by virtue of its 8K ROM cartridge. More useful perhaps are the more sophisticated graphics which support coloured pre charts and multi-bar graphs

The word processor, Vanaturite, is of the 'what you see is what you ger' variety. This means that, unlike Superscript, the text is formatted on the screen as you type Vizawrite again, has all the facilines you'd expect to find like mailmerge, but if you want something to check your spelling yon'll have to pay a little extra. Vizawrite itself is £79 95 for the disc version, the spelling checker brimps the price up to £99.95

Viza's documentation never won them any awards, but word has it that things have taken a rurn for the better in recent months. If, despite that you're still having problems they will be only too glad to help you sort them out. The man you want to

does incorporate many of the essentials such as mad merge. As with Vizawrite the text is formatted on the screen as you type st. At £24 95 it's one of the cheapest around so if it satisfies your requirements you may find there's little, point in paying the extra for something more sophistreared. If you're having problems decephering the manual, or the user friendly software is having an off day, Audiogenic's or Dataview's rechnical query service should be able to help.

· Dratog produce such a wide range of business software that there isn't room to include everything. As well as their DFM darabase there are several other applicamons packages suited to parricular business recogrements. Transact is a book keeping system and nominal sales ledger which observes normal accounting conventions Sales ledger and invoice processor is an open item accounting system which allows you to create invoices from product rables It can cope with multiple rates of VAT on

If none of those fit the bill, Disloc also produce, among other things, a purchase ledger and a stock control package. All of the programs are £34 95 with the exception of purchase ledger which is £29.95 Most of them should be available for the Cl 28 by the time you read this. Any problems and Dialog's software support people will be happy to help you ont.

Getting advice

This list is not exhaustive, but it does show that producers of business software are generally only too happy to provide telephone help and support. In many ways this is something to be thankful for Advice of this sort doesn't usually come free. many consultancies would charge for an

plications Applications Applications Applications

hours work what you pay for the average 64 business software package. So, should potential purchasers think themselves lucky to get auy help at all?

Precision Software's Nigel Lovest-Turner rhinks so: "They should not expect very much, but they seem to expect an awful lot. We're hooked on service here in the UK, things are very different in the their stuff in the high street chains the shops wouldn't take it. The reason is simple It's too expensive and it sells slowly

ple It's too expensive and it sells slowly Dating software's Chris Ely explained. "Business software is very difficult to sell and they haven't got a clue what it's all about. There's unt enough profit materia in it for those kind of dealers, particularly if they have to seen an hour evuluations.

TOP VIDEO GAMES ON TAKE?

TOP VIDEO GAMES ON TAKE?

TOP TIMENTY?

States where people expect nothing more

than the product they've paid for". If Lovett Turner makes at somed like Precision's brig and affected the you may be asking renderingly officered then you may be asking the production of the

Return to dealer

Of course you don't have to rely on software houses if things don't turn out to be as straightforward as you expected. You can always go buck to the place where you bought the package. Whether you get any low or not derends a reast deal on who sold

Business software doesn't generally find its way into the bag high street stores like Boots, John Menzies and WH Smiths The reason for this is twofold.

Firstly, the software boutes know that these stores don't have the trained stiff to sell their product properly). Apart from that, even if software producers did want how it works. Basically, they treat software like any other commodity."

like any other commodity."

So where should you go to get all the right advice and walk ont of the door wash the right package? Well, you will probably find more or less what you're looking for in any one of the bundreds of speculist micro dealers up and down the country. But some are obviously better thun others, so how do you get a good deal.

The right dealer

I had considered providing a list of some of the retailers I've visited and found to offer a good service, but such lots are so limited and leave out so much they're of lattle practical rise. Instead, here's some things to bear in mind for those considering a venture into the business software junicies.

1) Work out your needs: There's a lot of work to be done before you even reach the shop. The first thrug to do is decide what tasks you actually want to carry out. When you've made your decision stack to it. Don't go in looking for a distabase and walk out with a word processor and soreadshed as well. Even if it seems a road

idea, take time to coussder it 2) Find out what's available: The next thing to do is find on what's available to do the job you have in mind. That's the only way you're going to know what's not on offer. So if a retailer sniezess that' Vizastar is just the thing you're after, you can ask why Superbase wouldn't do the job ius as well for twenty guid less.

3) Buy the magaziness Read the adversamen pages of the mero press. Renalers usually include a list of the major packages they stock If this includes half addocted databases and as many spreadsheet programs or word processors it a fairly good indication that they'll be able to help, 9 Free advices? A quick phone call will find out how amenable they are to the idea of rounding free advice post processors.

5) Get a demonstration: By the time you get this fir, if you've followed the above advice you should end up in a reasonably good dealers. Explain what you've looking for and ask to see a few programs demoustrated. If, for whatever reason they can't give you a demo the hand to be then to alway you offered to have a few properties of the contraction of the be's out on a estruct then he's hardly likely to show much interest if you run into trou-

ble after you've handed over the reader. Finally, if you do run into trouble having bought the software, the remember to check that you've remember to check that you've followed the manual and you at least appear to be doing everything correctly. If you do bave to go back to the retailer remember that while he may be able to give you some guidance, he's got a business to run (just tike you?) and he basn't got all day to devote to your problems.

Precision Software 4 Patk Tettace Warcestet Patk Suttey KT4 7JZ 01-330 7466

Viza Software 9 Mansion Row Brompion, Gillingham Kent ME7 5SE 0634 813760

Audiogenic PO Box 88 34-36 Crown Court Reading, Betts RG6 1AZ 0734 664646

Dialog Software Fortuna Debden Green Softon Walden, Essex 0371 83109

SUPER GRAPHIX

PRINTER INTERFACES

FOR COMMODORE 64 AND VIC 20 MICROCOMPLITERS

LINI IKE ANY OTHER PRINTER INTERFACES ON THE MARKET THESE AMAZING PRODUCTS CONVERT STANDARD DOT MATRIX PRINTERS TO NEAR LETTER QUALITY!

CHECK THE OTHER FEATURES BELOW!

SUPER GRAPHIX inc

- 1 MICRO BUFFER GRAPHICS & NORMAL QUALITY PRINT
- NEAR LETTER QUALITY
- **BOCTAVE SWITCHES WITH CHANGES** CONSTANTLY MONITOREO
- COMMANOCHANNEL
- 10 PRINTER MODES
- CENTRONICS COMPATIBLE
- SUPPORT MOST MAJOR PRINTERS
- 100% COMPATIBLE WITH SOFTWARE FOR VIC 1525 PRINTER
- USER MANUAL & SOFTWARE EXAMPLES PRICE £49.95 (inc. VAT) Post & Packing FREE

SUPER GRAPHIX

- F18 K BUFFER STANDARD ☐ 10 PRINTER MODES
- 3 INTERNAL SCREEN OUMPS COMMANO CHANNEL
- NOW AVAILABLE FOR RESET BUTTON TO HALT PRINTING
- FROM BUFFER
- IN NEAR LETTER QUALITY MODE BUILT IN
- CAPABLE OF STORING 2 ADDITIONAL FONTS CORRECT GRAPHICS / TEST ASPECT RATIO
- FOR ALL MAJOR PRINTERS
- □ 8 OCTAVE SWITCHES WITH CHANGES CONSTANTI Y MONITOREO
- DINTERNAL FONTS SUPPORT SUPER SCRIPT. SUB-SCRIPT LINGERLINING BOLD FACE AND CHOICE OF 9 PITCHES

PRICE £69.95 (inc VAT) Post & Packing FREE

Available Only Through Exclusive Importers & Distributors

Main Avenue, Moor Park, Northwood, Middlesex, Tel. 09274-20664, Telex, 923574-ALACOL G

VIDEO DARTS

FOR CBM 64 - £7.95 inc. VAT

C16 CHARACTER EDITOR A.V.D.G. CHARACTER DESIGN PACKAGE TO MAKE GAMES WRITING SIMPLE £7.95 inc. VAT

> Available from all good retail oulets or direct from ZION SYSTEMS LTD

> > 24 CAMP ROAD **FARNBOROUGH** HANTS GU14 6EW

TEL: 022 21123



SJB DISKS LIMITED.

BLANK DISKS

Top quality 51" Bulk Packed Disks

Supplied in 10 s with a FREE Plastic Library Case. Labelis etc.

10 Single Sided Double Density* ONLY £13.95

10 Double Sided Double Density* ONLY £17-95

50 Single Sided Double Density* ONLY £59.95 (Supplied with a Perspex Storage Bax)

50 Double Sided Double Density* ONLY £79.95 (Supplied with a Perspex Storage Box)

· LIFETIME WARRANTY ·

All prices are inclusive of VAT

Delivery MEE throughout the UK 3" B: 31" Disks also avariable

Bulk Orders, Export Enquiries & Educational Enquiries Welcom

Masse Send Cheques Postal Order

SJB DISKS LIMITED (Dept C.U.)
11 Oundle Drive, Nottlagham, NG8 18N
Telephone (9492) 782318

COMMODORE 64 Plus/4 • C128

PRINTER INTERFACE

COMMODORE GRAPHICS

• ALL Commodore graphics on • 4K Buffer roduced

Any standard parallel printer

Fully strelligent self-contented
microprocessor controlled
interface

Full dot and labbing facility

Wholes with all influence and uses.

order MW350 £98.95 inc Vi

COMPANY PAC 1*2*3°

THAT'S SIMPLICITY TO USE SALES AND PURCHASE LEDGER - INVOICING - STOCK CONTROL - NOMINAL LEDGER AND PAYROLL ALL FOR ONLY

£98.95 Phone or send for further defails

THE FONT FACTORY

Niergals from here it be stabilised with the owing here by this color with your profes. This course PCNT PACE OFFO the read in the plantage of the PCNT of the plantage pack and an Open read to the position of the plantage pack and the position of the plantage pack and the position of the plantage pack and t

only £19.95 Inc VAT

" IMPEX SOFTWARE LTD.

CALORIE COUNTER

including Carbohydrate Counter

Tape for COMMODORE 64

Only£6.95 (inc. p&p)

* * * EASY TO USE * * * *

Let the computer do the sums You quickly select the todds from a list of over 400 common foods or enter your own foods enter the weight of each todd required and deloply the Carlone and Carbohydrate Totals You can then after your selection-leveghts to obtain specific totals and print your selection, if a printer is available. Weights can be entered in owness or grain.

Low-cost customising of the 400 + toods list is available, if required

Send cheque or P.O. to:

Sable Software Ltd., 38 Goldsmith Road, London N11 3JP



Wacky gifts for Christmas Dan Gutman reports

What, Christmas already? Americans are aradually breaking in their credit cards for the Festive Meanspend, Meanwhile Dan Gutman's rounded up his favourite wacky aift ideas for camputer lovers - and he's listed all the addresses in case you're tempted. .

I don't know what Christmas time is like in England, but in the United States it's like a big party that lasts from Thanksgiving (November 25th until New Year's Eye. Even if neonle don't celebrate the religious part of the boliday, they'll string lights across their houses, take the kids to sit on Santa Claus' lan, and send Christmas cards in all of their friends.

But the baggest part of the holiday is giving presents. Americans love to give and get and colours. Compatible with after new clothes or golf clubs. and they'll send you a free copy.)
We want our stockings stuffed • Christmas cards don't need to equally weird names.

interesting stocking stuffers for 100 for \$45, (CompuGreet, P.O. the computer lovers in your life. Box 3357, Reston VA 22090) The addresses of all the manufacturers are included so that you can write to them for

orders or more information · Christmas Carols will never be the same once you buy John Henry Software's Christmas Carols. It's a full desk of computer generated music, including such favourites as Deck The Halls, O Come All Ye Faithful, Jingle Bells, and Silent Night There are 18 songs all together, and the lyrics appear on-screen. For the Commodore 64 \$17. (John Henry Software, • if you like chips, you'll love 1252 Crestwood Hills Dr., P.O. The Chocolate Chip It's a Box 745 Vandalia OH 45377)

computer nerd again (at least not into the shape of guess what - a to your face) after you stude into microprocessor chap! \$5.95. (The the room with your Byte My Bus Computer Museum, 390 Concress T-shirt. It's available in all sizes St., Boston MA 02210). Another



presents (so do me – funny con- most humans, £8 95. (Smeet cadence that — Ed.). Computer Guon, 15490 N.W 7th Ave., No. people are no exception. But Missen, FL 33169. Sweet Gum commuter lovers love different has a whole catalogue of funny kinds of presents. We don't lust computer guft ideas. Write them

with multifunction cards, file he drah this year! Send servers, quadboards, bus CompuGreet's Computerized boliday drawings on the front. Not many of us can afford to and you can put a personal hand our Amigas to all our message on the inside using your friends, but there are plenty of word processor Cards come to give and secerve. Here are a attached to fan-fold paper for companies that might make cards and envelopes for \$9.95,



54-gram bar of the finest Belgran They'll never call you a chocolate that's been moulded

chocolate computer maker is SweetWare ("We Make High-Tech Appetising") Inc. Write to them at 516 Shelburne Rd., South Burkwaten VT 05401

 Santa has disappeared and there isn't going to be any Christmas this year unless you find hum. That's the plot of A Christmas Adventure a computer game for the Commodore 64 It features hi-res graphics. animsted sequences, and music. \$24.95. (BaCards Inc., 30 W Service Road, Champlain NY 12910

 Duff jokes: "Did you hear about the computer programmer who made it big in the movies? He had a bit part." That's one of the sally executer cards made by Current Inc. They also make computer memo pads, computer stickers, decorative computer extenders and other things with Greeting Caids. There are paper, and colourful diskette holders. (Current Inc. Dept DHD6. Colorado Sarmes CO. A094J).

· A mouse can get cold on less expensive items that are fun with matching envelopes these winter nights Mouse-House is a furry pet that fits over few ideas from American tractor-feed addressing Twenty any mouse. It just goes to show that if you build a better Mouse-House, the world will beat a path to your disk drive. The perfect gift for concerned Amiga owners Cheese not included. £6.95 (American Coters, 512 Wennet 9450 South, P.O. Box

1796. Sandy UT 84091.) · Microcomputer chips are now so tiny, you can actually wear them as jewelry. The Computer Museum in Boston sells all sorts of "micro-chip semellery" - earings, pendants, tie-tacks, cuff-links, necklaces, bracelets, and rings. Write to the Boston Computer Museum for a free catalogue of other computer krick-knacks And if you visit the States, be sure to stop into the Museum itself. It's a fascinating afternoon.

· Tie it up: Is that a spot on your tie? No, it's a miniature floppy disk pattern! The



"Macrocket Tue" aren't the latest thing in fashion, but a trend has to start somewhere, right? \$14.05 Ru Sweet Gum

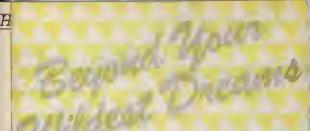
· Seiko's new PC Datagraph computer watch can store phone numbers, addresses, your duly schedule, a grocery list, or a chest sheet for that her exam. It hooks up directly with your Commodere 64/128 so you can transfer information back and forth. \$199 - see Gommodore

User, June issue for details. • The ultimate gift for the absent-minded - Key Finder. The next time you lose your keys, just give a whistle. The Key Finder keychain contains a uny speaker, receiver, and microchip programmed to respond to the key of D. It's sensurve up to 40 feet \$17 (KC Distributors, P.O. Box 157.

Richford VT 05476). · Micro-jog: Now you can computerize your jugging with Puma's RS Companer Shor. An electronic sensor in the heel of the left shoe records every time your foot hits the ground. There's also a ston watch, so the shoe can record how long you ran, how far, how fast, and how many calories you burned. When you've finished running, go home and plug the shoe into graphics let you know your

running progress Remember, it's hetter to give than to receive. Especially when you receive some of this stuff.





An amazing new concept in software presentation, Electric Dramss will bring you two existing games in one double size cassette pockage at the superb value for money price of ONLY 19.95 on cassette and £12.95 on disk.

Some of the world's most ingeneous mands will be recruited to bring you entertainment and excatement beyond your wildest diteams.

Buy this ritle as the first of many to complete your range of Electine Dreams.



Digital dexterity and devisors deduction are only two of the skills you'll require when you take on the nasty had men in these two episodes from the world's most intriguing



Available on Commodore 64 and Atari

CARCADE HALL OF FAME

SPV HI INTER

* Entered UK Charts 21st February 1985 Weeks in Charts --16

'Superb Arcade Game'

TAPPER

10th January 1985 Weeks in Charts — 9

'Greet Sound and graphics, fast and addictive' Your Computer

UP 'N' DOWN

* Entered UK Che 2nd May 1985

'A curious, cute and highly addictive car game'

AZTEC CHALLENGE

* Entered UK Charts 5th April 1984 Waster in Charts 44

i 'it's gripping music imeginative setting mekes this seven above the rest'

RI ITE MAY

"Emered UK Charts-24th January 1985 Weeks in Charts —10

highly enjoys Your Commo

A CHARTBUSTING COMPILATION FOR COMMODORE THAT EXPLODES WITH ACTION

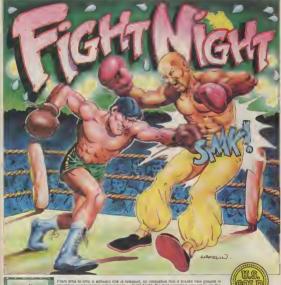
£9,95 TAPE

Gold Limited, Unit 10, Parkway Industrial Centre, Heneage Street,

* Based on compiled data (64/Spectrum) from Ram/C / Micro Dealer Charte

DISK £14.95

M'LORDS, LADIES, & GENTLEMEN... FRESH FROM AMERICA U.S. GOLD PROUDLY PRESENTS... THE UNDISPUTED CHAMPION.





From tima to time, a aotheric tiffe is released, so innovative that it breaks new ground in graphical and technical echievement — Fight Night, the first animated simulation on the CR4 is more than a game, more than a simulation — if is a revelation!

"If hes class, it has style — forget the rest, Fight Night is quita amply the absolute be:
— Tony Takoushi Computer & Video Games/Computer Trada Waskly
"It's like watching and playing a carton computer version of Rocky Fight Night has











Available for Commodore 64
Cassette £9.95

FORM

cquested. ? ? ? ? . Disuble TI

Machine skill VITAL Doctor: ultimate risk scenario, Your -CAA as weapon. \$ The Muster reports Im

Zi (Ur, (A°C,H,N), O, Fl.) OH, 16H,O } ◆ O 2nd Moon Rust Issue mystble cat +code, string ♦ etc. Full cerebral combat status needed

MEGA SECURE !!!

amme conserated in game Pack 🗆 Whereveld think it ju Dil Madrag (genetically boosted saurian) +

Blue print (part) supplied, Ky-Al-Nargath cor all times Hall Heatonite prod

Business Business Rusiness Business Rusine

facility means that it can recalculate

 The Speed: Another impotant thene is speed; the larger a sheet, the more time it will take to recalculate each piece of data as you type it in Doesn't matter if the formulae have already been calculated.

they will still be worked out again, noless you have some way of turning off the recalc" option.

Speed is something you can only find

omr to operate in

out about from experience, and bear at mind that a spreadsheet with powerful facilities running on a computer with a memory as modest as the 64's will probably slow the system down a bit while u swaps the memory around.

So what can you expect to get from a spreadsheet? The following characteristics are fairly standard

 Virtual screen: the sheet steelf occupies a "virtual screen" several times the size of your normal screen display, and as you move across, or up, or down, the display scrolls past the screen nundow

· Cell input: data is input into the single squares of the sheet, known as cells, in the form of text (LABELS), figures (VALUES), or FORMULAE, consisting of calculations performed on preceding values. This means that if you input the figure 100 in cell A1 and the figure 200 in A2, then if A3 contains the formula AI + A2 it will display the figure 300. · What if function: the "what if

SPREADSHEETS

choosing a spreadsheet calculator for your 64

by Karl Dallas

We've reached the final part of our Ton Ten business programs series.

Here it is, an in-depth look at spreadsheet packages.

Let's start by asking a simple question: what makes a good spreadsheet? • The size: For a start, it is not

necessarily size, especially the size quoted in your average brochure. This is because the figures emoted are maxima; though the maximum number of rows may be 255 and the maximum columns the same, this doesn't mean that you can construct a apread sheet of 650525 cells, because you'd run out of memory long before you got anywhere near that size.

And spreadsheer size ilso depends on what you want to do with it. A simple sheet, without complex calculations, can be larger than one that contains numerous long formulae, since these also need

instantly, so that if you change the conrents of cell Al to 200, the contents of A3 will change to 400 (as I've said, often it is possible - and advisable - to switch off this recalculation feature while inputting large masses of data, since it can slow masters down rather).

· Copy and replicate: labels, values or formulae, or columns or rows of any or all three of them, can be replicated, or copied, to other parts of the sheet, simplifying the setting up of a sheet structure before you input any data

During replication, formulae can be copied with absolute or relative vidues, so that if A3 is renlicated to C3, either the absolute values of the formula A1+A2 can be retained, or changed to the relative values of CI + C2

· Variable formatting: cell contents can be formatted in various ways: labels can rauge left or range right, values or results of formulae can be displayed as integers, floating point, or pre-determined

numbers of decumals (usually two, for the representation of decimal currency like dollars and cents, or pounds and pence), with or without rounding.

Formatting can be confined to sudividual

cells, replicated to specific areas of the sheet, or applied globally to the entire sheet (though individual exceptions to the wlobal format may be specified).

· Data interchange, data can sometimes be interchanged with other programs (sometimes in Basic), but this often involves a rather complex routine known as Data Interchange Format (DIF) which is particularly useful for swapping data (but not formulae) between different spreadsheet programs

AUTOCALC M £14 95 tape, £19 95 disk Richard Shepherd Software 23-25 Elmshoff Disk/lape Max No. of Cells

255 (maximum cells on sheet 2000 Max No. of

Della(Ved:

sheet 2000 A much better spreadsheet than the

255 imaximum cetts on

sketchy unindexed page manual would lead you to believe. The lack of any information on printers (spart from the commands necessary to select what part of the sheet to print) is amazing. It supports the Commodore range, and the Seikosha GP 1000VC but there is no info for configuring for other printers.

There are, however, examples on cassette or disk and the on-screen display is helpful, despute the lack of specific help screens. And it permits the use of IF THEN conditional functions in formulae, which some more powerful sheets lack

Nome SPREAD SHEET Price (tape): Kuma Computers, Unit 12 Horseshae Park, Horseshoe Rd

Pangbausne, Barks RG8 7JW Rei 87357-43353 Format. Max No of Cells

(Ver). Simple, budget-priced spreadsheet linking with the same company's Database and Simple Accounts programs. Totals, subtotals and formulae are all in different

colours, to aid reading. MICRO SWIFT Price (disk): £19 95 IC128 version Distributors:

Max No of Cells

£24 951 Audiopents, PO Box 88. 34-36 Crown Court Reading Series RG& 1AZ (hot: 0734 664646)

Max No of Cetts 26 (64) on C128) Max No of

Cells(Ver)

A good, fairly powerful sheet, that's easy to use thanks to the Macintosh-style pulldown menu system which Audiogenic pioneered for Commodore with the Magne database. Though this slows matters up a hat after you've got used to the way it

works, it does mean that the lack of any kind of help screen is no real problem. The manual is brief, clear and to the point Commodore and Centromes-style parallel printers (eg Epson) are supported, and there's a simple set-up program for adapting to others.

Despite the low price and impretentious packaging. Swift is pretty sophisticated. It comes with useful examples on disk.

It is possible to program a, by placing a series of Basic-like commands in column Z of the sheet, beginning with the name of the procedure, preceded by a hashmark (#), and concluding with the OUIT instruction

The functions available include the usual mathemanicals as well as GOTO 1F and IFGOTO, providing automated motion about the theet Recommended

POWER PLAN Price Canal. Oleteibutous First Publishing Ltd. Unit 216 Houseshoe Road Poncibourne, Becks del 07387-52241 Mox No of Calle Max No of Calls

A reasonably-priced, mid power spreadsheet with a useful graphics capability. able to produce bar charts, curve graphs (including multiple curves), point-to-point graphs, an interesning chart they call a 'mini-maxi graph", and pie chorts.

The program is mean-driven, and most of the mnemonics are fairly obvious, apart from <R> from gRafics (sic) or <1> from dlek.*

Combining the graphics pack with the capacity for up to eight windows on screen at a time allows several graphs to be viewed simultaneously. Moving from the spreadsheet to graphics made and back again is rather slow, taking about two minntes, though in the graphics mode the spreadsheet in memory can be looked at, though not modified in any way

It is configured for a choice of three classes of printer: MPS 801, CBM 1525, or CBM 1526 or Epson FX80 or RX80 the configuration of any of these to a printer which is marginally different.

| £69 95 Piacileors, Goddard |
|-------------------------------|
| Practicorp, Goddard |
| Sprid Whilishouse |
| Industrial Estate, Ipswich |
| Suffolk IP1 SNP Itat |
| 0473-4627211 |
| Dlisk |
| |
| 100 |
| 3 |
| 200 (C84 250) |
| |

between the Vic and 64 versions except a greater number of rows available There's the option of high and low resolution bargraphs, sorting alphabetically or namerically, in ascending or descending

order, and 22 muthematical functions It can read other Practicals files, and also Practifile database files, as well as ASCII files produced by other programs. The exellent manual was wraten for Apple, and needs a 24-page supplement of adaptations to be used on Commodore equipment.

The "help" facility, accessed by <CTRL>+A (for assist) or F8. :s comprehensive and instantaneous, but the information is displayed un-screen in capitals, which is less readable than unnerand-lowercase. There is an 80-column opnon, which really needs a hares

monochrome monitor to be resolvible Most printers are supported, and there is an easy-to-work configure program supplied for adapting to those not covered by the built-in software.

Pries Idski. E59 95 PlathCorp. Goddard Rd. Iptwich, Suffolk IP1 (tel 0473-4627211 Format Max No of Calls Hog: 50 Imaximum cells on Max No of Cells

A reasonably-powerful spreadshoot, with a total of 2000 cells (which can be allocated between rows and columns as the user wishes), producing semental files which the skilled user could access fairly easily.

Importune catts on sheet

enabling some portability Its main plus is the fact that it can be programmed in Basic Twelve possible program modules, including such facilities as help messages, disk directory, prog for data entry etc, are on disk and LISTed in the excellent 124pp spiral-bound

manual (with index on page 96, at the beginning of the appendices). Memory locations of important MI. rontines are also well documented BUSICALC 3

Pries (HIN) 175 00 Supersoft, Winchester Otstributors: House Canning Rd Wealdstone Ha Middlesax HA3 7SJ hel 01-861 1166 Max No of Cells 999 Imaximum cells on

Noms-

sheet 2000 Max No of Cells Medic 999 Imerahmum cellis on

A typical no-nonsense application, worth

apprading to if you're already using the previous Busicale 1 or 2 (g can read BI and B2 files, and there is a nulity program for converting them) The file structure is quate accessible, so portability shouldn't be a problem. There is a program in the manual for READing Busicale files, which could easily be adapted to turn them into

DIF files The 48-page manual could be improved. especially with an index. The program disk contains a "News" program for the latest undate info, which is a good practice

usually adopted by Supersoft CBM/ASCII/parallel printers are supported and there is a program for setting up other printers. The disk contains some useful examples. MULTPLAN 200 00

Thorn-FMI Computer

Fainbolough Road Hants GU14 7NF Itst

Saftwore, 296

Prica (disk) Distributors: Mox No of Cells

63 (HOI): Max No of Calls 255 Probably the best spreadsheet around at

the moment, and the only thing really distinguishing the Commodore version from the more expensive CP/M and MS-DOS versions is its speed, since it has almost twice as much RAM memory in the CP/M version, and can have ten times as much on a 640k PC, and the C64 version has to access disk all the time,

The system disk is divided into seven ateas, of which the first 46 blocks are devoted to the "boor" program and the basic code, with over 400 other blocks of maioly sequential and relative files which are accessed as the sheet is developed. Of these, a hefty 153 blocks are devoted to really valuable help screens, which make the superb manual almost superfinous. The only printer supported is the Vic-1525, which is a supprising limitation.



Only one sheet may be displayed at a time - rhough a can be spla across up to eight windows, but there is a very sophisticated external command, which allows the sheet in memory to be linked in all soits of ways with files on disk

There is also a "SYLK" (SYmbolic Link) file formst, which allows the interchange of information between Multiplan and other programs, similar to Vasicale's Data Interchange Format (DIF). which could be used to upgrade from

CalcResult, which supports DIF. But although the manual says that DIF files can be accessed via SYLK. There is no detailed description of how this can be

Price (disk): Distribusions

CALC RESULT £99 95 (64 Easy ColoDonik 649 06 Honeric Software Ltd. 5 Berks RG11 7LT flet 0344-778001

Earmof. Max No of Cells Max No of Cells (Vector

CalcResult is a sa-called "3D" shaer linking together up to 32 pages of sheets, each of them with up to 16002 cells (63 columns across × 254 rows down), making over half a million cells, with the final sheet totallang all tables.

Up to four can be displayed in separate windows on screen Easy CalcResuli is cartridge-based, a single sheet of 16002

cells and less than half the proce. Disk access slows a down, since it uses virtual memory as well as virtual screen. but it is really very good.



One of CalcResult's Help screens

Name: Price (disk): Distributors

699 95 IBk ROM version \$429.95 Viza Software 9 Manuar Row Brompton Gillingham, Kont ME7 5SE Onl DANAMISTAD

Max No of Cells Max No of Calls

An integrated package, described as an information processor, combining dstabase, spreadsheet and graphics in a really professional manner. The real plus is that it claims an average access time of less than three seconds. Available with 4k or 8k cartridge, and with graphic

MEANAN

enhancements for pie and multibar charis. its spreadsheet is programmable, and since the programming "macros" mainly use the initial letters of the sheet commands. This facility is easy to use. Compares favourably with famous names like Lotus 1-2-3, and is actually easier for the beganner to get more power, though obviously its speed is limited by memory and disk himst stinus.

Much easier to use now that they've rewraten the manual and supplied a useful tutorial. Supports the Commodore and Epson FX80 printers, as well as Centronics parallel and RS232 serial printers. Highly recommended

Units 10/11. Imperial Studios, Imperial Road, London SWS

| | REP Duc | | 182 Out |
|--------------------------|-------------|-------------------------------|-------------|
| | price | | price |
| Super Zerxee | 8 95 7 58 | Backwicke | 995 750 |
| Say as Spy II | 895 758 | Explosing Fall | 995 759 |
| Speed King | 8 95 7.54 | Footbard Blat | 955 788 |
| Mercenary | 1275 970 | Statowice | 996 756 |
| Nofes of Yeard | 8 85 7 50 | White Lightener | 19:55 14 85 |
| Karacake | 0.95 7.05 | Manhow Ledmone | 20:55 22 80 |
| Dr Creep | 1 95 7 16 | 18# 0 | 8.85 1.75 |
| Swalth | 9.95 7.85 | Dalay's Sepretari | 755 585 |
| Pinhall Construction Set | 14 95 11 85 | Warld Sensy Baseball | 7.95 1.15 |
| Advant Construction Sat | 14 95 11 85 | Novembers | 1.55 1.76 |
| Washing | 315 750 | Tir Ne Neg | 915 7.50 |
| Mosty On The Ban | 715 645 | Intercable Masser | 9:95 7:10 |
| Ten symeFace | 785 885 | Priscop II | 9.95 7.50 |
| Ranny Destruction Set | 14 95 11 05 | Oracone | 9.95 7.50 |
| Saven Sets of Gold | 14 95 11 85 | Enterphyl | 5.95 7.50 |
| Music Construction Set | 14 95 11 85 | Elden | 815 175 |
| Setun of Sterwood | 1 95 7 58 | Site | 14:15 11 90 |
| World Cop 1 | 7.95 5.85 | Frenz Relics Okis | 795 515 |
| World Cop (CLE) | 6.95 5.25 | Transe STB | 9:15 7:50 |
| International Kerata | 6.52 4.88 | Ricky Humm Stow | 045 175 |
| Cyle | 250 175 | Mad Brier Monstara | 14:95 11:00 |
| Salne Wolf | 185 750 | Joseph | 785 525 |
| Set Moss | 1.95 5.25 | Bgd Maco | 8 55 5 25 |
| Parefroid | 795 585 | Bastot & the Toyotakars Plots | 735 535 |
| Econic Brune | 795 586 | Thou on a Sprog | 7:5 5.85 |
| Code Name Mat II | 1.95 11.75 | 8 Grock Test Crokel | 915 750 |
| Screner Games II | 9.95 7.50 | Erecine | 155 750 |
| Brach Head II | 9 95 7 50 | World Cay II | 715 545 |
| Ennedy Approach | 335 750 | The Hats | 795 585 |
| Winingers | 8.95 7.50 | The Recker | 155 745 |
| Doughboy | 895 758 | Save Durney | 9.95 7.48 |
| Underworlde | 945 750 | Summer Comes I | 9.95 7.45 |
| Where lac | 8.05 8.78 | I 15 Strike Epple | 14 55 11 29 |
| Now Genes | 945 675 | | |
| | | | |

REVIEW LINE 0896 55471

For the latest reviews on CBM 64 software & hardware, If you've seen an ad for a game, Iry us, we might have it Or why not by to win a free game, just send a silly letter or serious if you're in a mood, and we might bung you a game.

villeet bluow 1 251/o olf!

| Monthsolve | 17.45 | Young Onus | 25.05 | special orders only | |
|------------------|--------|-------------------|--------|--------------------------|--------|
| Shrice | 17.65 | Depart Fox | | Normally 8236 from us | |
| Karatolo | | ACE | | £199 00 | |
| Word | 17.45 | Googgnies! | 17.6 | Quoistel (_ | E5.9 |
| Scaratagus | £7.45° | Pandrod | \$5.95 | Duckask* | 1179 |
| Three Days Optin | \$8.95 | Ruport & Pirity | 17 99 | | |
| Brid Hest | | | | Other itams available | 00000 |
| Scoolly Doo | | Hypersports | | and ask | |
| Monly on the Sun | | | £5.95 | | |
| Elvin | | Beach Head II | 17.6 | | |
| Super Zixonn | | | | If there are any other o | |
| Dylu | | Backeych | 1745 | | |
| Netus | | Starron - | | | |
| Brigingings | | DT's Super Test | 25.95 | | |
| Waardry | | Speed King | | | |
| Вату Мобиция | .57.45 | Thing on Syring | 15 95 | Roven Line and sond | 10 |
| Hadier | | Spy Vs Spy II | 17.45 | | |
| Zeno | | | | REVIEW LINE Soft Sho | |
| Nodes of Yesod | 2745 | Yin At Kyeng Fy. | 26 75 | 16 KILNKNOWE PLAC | Ė |
| Mr Do | .5745 | Kennedy Approach | | GALASHIELS | |
| Marcesery | | Non Garres | 2875 | | |
| Zods | 25.75 | Fine Ass Fbs1 | | TD0 IRH | |
| Crazy Comets | | | 94.95 | | |
| Sunner Games II | \$7.45 | Jamp Jel | \$4.75 | | 41 UÓY |
| Intern Karata | | Emile U.K. | 57.45 | Resilian 7 Dept | |
| Fight Night | | | | | |
| CBN AMIGA | | Hardware & Sticks | | CBM 15 splikare also | |
| | | | | | |

£745 Microvex must serroler

F1.05



27/29 High Street

THE MIDLAND'S LARGEST HOME COMPUTER STORE commodore AUTUMN SPECIALS

£49.95 - £49.95

£99-85 - £59.95

£99.95

£79-95 -- £59.95

SUPERSCRIPT/SUPERBASE LIMITED OFFERS

SUPERSCRIPT, THE GREATLY ENHANCED VERSION OF CONTAINS SHORES SHOUND WORDPROCESSOR EASY SCRIPT, CONTAINS SOMEWHALL AND STEEL CHECK AND WORDPROCESSOR WITH BUILTING SPELL CHECK AND MAIL MERGER SPALLTIES.

MAILMERGE FACILITIES
SUPERBASE, THE PRIEST DATABASE SHIDDUCED FOR
SUPERBASE, THE PRIEST DATABASE SHIDDUCED FOR
SUMMODIRE MICHOUSE PROVIDES APPLICATIONS PANGING
SUMMODIRE MICHOUSE FROM STEP A NEOFIL
ADVANCED TALLY PROGRAMMENT SEE CATABASE BY
PROGRAMMENT STEP SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIF
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SHIP
SUMMODIFIES OF A SH FULLY INTEGRATED PALKAGE.
THIS EXTREMELY POWERFUL BUSINESS DUG IS AVAILABLE
FOR A LIMITED PERIOD AT THE FOLLOWING REDUCED
ROBERT OF THE POLICY OF THE P

PRICES Jupa 18 4 64

ACKAGE

Superscript 64 + Superbase 64 Now available for the Commodors 128

£99-85- £74.95 Superbase 128
Superscript 128 + Superbase 128
£170.90 - £124.90 Superscript 128 Superbase 128 Please add £1.50 carriage per item

STAR SG10C OFFER

THE STAIL SG10C REPRESENTS A BREAKTHROUGH IN PRINTER TECHNOLOGY AND PRICE FOR COMMODORE USERS WITH A DRAFT PRINTER PRINTER COMMODORE USERS AND A REAR LETTER WITH A DRAFT PRINTER COMMODOR COMMODORE COMMODOR COMMODOR COMMO WITH A DRAFT PRINT SPEED OF 120 CPS AND A NEAR LETT QUALITY MODE OF 27 CPS. THE STAR PROVIDES PRICTION AND TRACTOR FEED AND, SEING 1907; COMMODURE COMPATIBLE, REQUIRES NO INTERPACE.

TOGETHER WITH SUPERSCRIPT, THIS DUO CREATES AN TOGETHER WITH SUPERSCRIPT, THIS DUO CREATES AN EXTREMELY POWERFUL, HIGH QUALITY WORDPROCESSING

STAR SG10C+ SUPERSCRIPT £299.95

COMMODORE PERIPHERAL PACK

* MPS 801 PRINTER

* 1541 DISC DRIVE

OFFER PRICE £199

MPS 801 PRINTER OFFER

OFFER PRICE £99.95 COMMODORE 64 DRIVE OFFER

1541 DISC DRIVE

OFFER PRICE £129.95

COMMODORE DAISY WHEEL PRINTER OFFER

DPS 1101 PRINTER & SUPERBASE OFFER PRICE £239.95

LIMITED QUANTITY COMMODORE 128 £269.95

PRODUCT ENQUIRY HOTLINE Please ring for details of the wide range of Hardware, Software and Peripherals available via our

- £39.95 Disc & Cartridge *

- E 8.85 Certridge

- £14.95 Cassette

ITEM

coupon or ring (0533) 57479/21874 with Access/Barclaycard number. Please add £5.00 carriage to any Hardware orde Send to Dept CUS Dimension Computers Ltd., 27/28 Migh Street, Lancaster LE1 4FP

o order, either send cheque/P.O. with

OHANTITY

TOTAL

COMMODORE SOFTWARE OFFERS Hendic Easy Calc (Spreadsheet) £49-55 - £14 95 Certridge

Hendic Calc Result (3-D Spreedsheet) Hendic Duary Practicoro Practicale (Spreadsheet) Practicorp Practicalc (Spreedsheet)

Practicoro Practifile (Data base) Audiogenic Wordcreft 40 (Wordprocessor) SPT Quick Brown Fox [Wordprocessor)

ommodora Ezayapeli Spelicheck for Easyscript

- £17 95 Disc £89-95 - £24 95 Cartridge £69-00 - £24 95 Cassette or Disc f50.00 - £19.95 Disc

mail order service.

£29-55

FAART - £17.95 Disc

PERSONAL CALLERS AND EXPORT ENQUIRIES WELCOME ALL OFFERS STRICTLY SUBJECT TO AVAILABILITY

1 Name Address

PLEASE ALLOW 7 DAYS FOR DELIVERY

POWER PACKS

wo powerful packages of personal computing programming techniques made instantly usable by Dorling Kindersley's unique 'Screen Shot' presentation

What you see in the pages of the books is what you get on the screen when you follow the step-by-step programming guidance in the text. The crystal-clear Illustration is easy-to-follow and guaranteed free from typographic errors.

he Starter Packs for the Commodore 64 set you some quickly with BASIC programming.

The accompanying software offers carefully graded exercises leading to rapid keyboard familiarity.

he Graphics Packs for the Commodore 64 contain a fabulous collection of more than 200 graphic images. each with its machine-code program. The keyboardcontrolled graphics editor enables you to create and manipulate the images.

In-pack software contains the complete machine-code library of images, demonstration routines and the full graphics and sprite editor programs.

ach pack contains two full-colour Screen Shot programming manuals plus library cased cassette software. Superb value at £15.95 inc VAT for the complete pack.

Available from larger branches of Boots, Menzies, W.H.Smith and leading bookshops and computer stores, in case of difficulty, write to Doring Kinderstey Publishers Ltd. 1-2 Henrietta Street, Coveni Garden, London WC2E 8PS















ARKET

You can now buy the complete range of "off the shelf" Handic products by post, if you're not near a Handic dealer. All you have to do is remittance. We will pay the postage and packing and offer a full 14 day hardware accessories for IBM and compatibles, the Commodore 3000.

HANDIC DATABASE

expenenced data base users

collate and store information for easy recall, data base can make life



CALC RESULT Calc Result, the financial

spreadsheet for the 54, that's ideal budgeting, stock portfolios, tax planning - let alone all those bills! in business - large or small. This pasy to learn package comes in two versions - Calc Result easy (certridge based) and Advanced (disc and catridge based with pedagogical manuel).





TECHNICAL DATA

- Spread sheet size
 64 X 254 X 32 pages
 Coneolidation: Easy with the 32 pages available in Calc Result
- Printing: Flexible printing
- Graph: Histogram with scroll
- through feeture rows and Colour: Supports full colour down
- Hulp: Easy help screens
 available, at all levels Calc Result is elso avellable m
- eight European languages Applied Calc Result describes a larger number of applications in the

PERSONAL AND BUSINESS FINANCE - STOCKS AND SHARES STATISTICS MATHEMATICS -

among the applications given many useful examples of how to get the most from Calc Result



HE Handic supermarket basket THE Handic supermarket bas Is full of 'goodles' for your Commodore 64. Here is a brief description of what they all are Oon't forget - if you need any more Information, either clip the Coupon (and tick column 'A') or give us a

1 Mon 64 An outstanding Machine Code

Communication cartridge for use with the CBM 64, link up with Datasupermarket, over the telephone

3 Superbox 64 An expansion unit for the Commodore, which features the

Independant cartridge sints: IFFF interface that is totally transparent, has multi-use capabilities with IEEE, end a re set switch which activates a cold start on the computer This unit will

connect up to 3 cartniges at the 4 Vic Rel

Vic Rel (Rel 64) is a relay cartridge for the CBM 64 and Vic 20 which has almost limitless applications. garage doors, door locks, electric radiators, lamps , transmitters. model railways, etc.etc.

5 Disc-based games

Handic have a set of disc based games for the Commodore 64, all are orwat fun and superb colour graphics Ataround9.95 each Why not treat yourself to a few? Quantity discounts are available on request - dealer enquinas are also



An ideal program for keeping track of telphone numbers, addresses appointments, schedules in fact the ideal time manager for all you

7 Stat 64 The statistical CBM cartedon

which ads 19 new commands to your Basic language. An excellent programming aid for all you 6 Graf 64

A CBM cartridge that turns solutions of equations into graphical analysis, what you might 9 Handic Auto Modern This modern is the expanded

(see illustration) When used set up your own data base with



triaphone lines, its facilities include auto-dialling, line control, etc. (BT 10 RS232 A standard V.24 (R5232) interface

11 Bridge 64 A cartridge bridge game for the

12 Forth 64 A Forth generation programming want to know even more



SAVE £79.75 on **Professional Business** software for the CBM C64 & Plus/4 Computers

TRANSACT Book-keeping System

TRANSACT is a book-keeping System and Nominal Larger package Provides a flaxible alternative to manually operated systems Observes normal accounting conventions Suitable for Accountants and small business applications

Full Trial Balance printout excludes null Accounts

Price Cassette £29.95 Disc £34.95

SALES LEDGER and invoice processor

Open Item Accounting System Fast creation of involues from unrelief rables Multiple rates of VAY allowable on invoices

Trade and settlement discounts allowable Extensive reporting to screen and printer

Price

Disc #34 95

PURCHASE LEDGER

Open item Accounting System, Automatic payment runs. Print remittence edvice notes. Allows for settlement and trade discounts Chaque writing capability. Extensive reporting to screen and printer, Suppliers referenced by

name or part name Price

Disc £29.95

STOCK-AID Stock Control System

Single Screen Format dupleys Update Belance & Value of Stock/Profit of Salet

Proces, Current Unit Cost / Current Unit Sala Outputs Units Bodd & Value to date + number of transactions
Outputs Units Sold & Value to date + number of transactions Re-orders Mirrorum Stock Level Units to re order & Value

Price

Disc £34.95

Home Accounts Manager

HOME ACCOUNTS MANAGER is a comprehensive hom management system dasigned (a asset in the maintenance of any household builget. There are 4 major op! lons from the main manuas follows

- 1 HOME ACCOUNTS Produces detailed expenditure 2 BANK ACCOUNT Full Bank statements recents also
 - ADDRESS FILE 50 Nama Addresses
- 3 ADDRESS

Price

Disc £19.95

We are offering our complete business set for an all in one price of £75.00.

A fantastic saving of 79.75!!

Chaques made payable to Dialog Software



DEBDEN GREEN SAFFRON WALDEN ESSEX CB11 3LX Phone D371 831009

nmy's Tips Tommy's Tips Tommy's Tips Tomn

Raster blaster

Dear Tommy, I have been using a Commodore 64 for some time and I am oow learning to write in machine eode. One thing that puzzles me because the Programmers Reference Guide does not explain it well, Is splitting the screen. It tells you how 10 set the Raster Register and Interrunt Enable Register but not where the microprocessor jumps to when the Raster Register value equals the actual raster value,

Please could you belo? What happens is that, provided the relevant but in the Interrupt Status Register (ISR) has been enabled, the computer generates an IRQ insetrupt This is the same interrupt that occurs for keyboard scan, sprate collisions etc. However, by examining the ISR you can tell which action triggered the interrupt. Since the computer has its own code for actioning IRQ, it means that you musi 'divert' rhis interrupt to your own piece of machine code. The Vector for IRO is held. in addresses 788 and 789 (decimal)

Having changed the vector to jump to your owo code you must check whether the IRO was caused by a Raster Interrum or not. If it was (but 0 of the ISR is set to 1) then carry out the action required, at the end of the process, or if ir was not a Raster Interrupt, tump to the normal IRO vector address so that the computer can carry out its housekeeping correctly (the oormal vector is \$EA31). Do not forget to reses the relevant bit in the IRS (by watting a I rour) and set the Ruster Scan Register with the oexr line you wish to be interrupted at There is a second method of checking

for a Rasser Interrupt, and that is to wait for the Raster Scan Register to reach a certain value and then carry out some action. This obviously involves a small m/c loop and means that you can't do anything else, but other joternuots will still be processed as normal (ie you can still input text directly, but oot through BASIC) The following short program shows so examples



boader. Activate with a SYS call in the stars address and terminate by pressing any of the SHIFT, CTRL or CBM keys If yon are keen to investigate Rosser interrupts further, a good book is Roeto West's Programming the Commodore 64 which covers this and many other aspects of interrupts quite clearly.

Pokes for 16

Bear Tommy, I was given a Commodore I6 computer for last Christmas, and I am very pleased

Until two mooths ago I was happy just learning Basic, then I wanted to go into converting programs but last

week I got stuck on a few things, so please could you help me? Could you please tell me what corresponding C16 Pokes are to the Commodore 64's 56334, 13312 to

13527, 53272, 12288, 53248 to 54271. I would be very grateful if you could help me please.

Unfortunately, converting programs is a little more complicated than just changing the memory addresses. For example, 53248-54271 on the 64 are the Video loterface Controller addresses, which include all the Sprite position registers Since there are no sprites on the C16 there are no equivalent address:

Likewise, 13312-13527 is part of the normal Basic RAM and its use depends very much on the program you are trying to convert. If it is being used to store sprite data, then again you cannot just alter the addresses and expect it to work; you would possibly have to use UDGs instead

53272 is the Memory Control Register. which determines where the character set and screen memory are to be found. Any value Poked into this location would be totally meaningless on the C16 even in the

equivalent address. The C16 and 64 are quate dissimilar machines in many respects. and you must thoroughly understand any programs if you carry our successful conversions. In many cases the differences to such things as sound, screen memory, sprates etc. will mean that in cases where large numbers of Pokes are used, it may prove impractical, if not impossible, to do

Switch-on sequence

Bear Tommy, Could you please clarify the sequences for switching on the Commodore 64 when connected to other peripheral devices.

direct conversions

I have a 64, MPS-801 printer and 1541 disk drive, output is on a standard 12" TV. The instruction booklet for the printer is careful to illustrate the set-up procedure before switching the computer on, as for the disk drive instructions it is quite explicit that the drive must be switched on before the computer.

Now this is where the problem lies, EasyScript (disk) states computer on first before peripherals. this was confirmed when I contacted Commodore. Input magazine also states the computer must be switched on first otherwise damage

can occur to the I/O chip. Other reference books on printers and disk operations state the

TOP LDA SDO12 : RASTER SCAN REGISTER BNE TOP

LOOP UNTIL REGISTER IS 0 LDAKE STA SD02t : BLUE SCREEN

; CYAN BORDER

REGISTER IS

WATE THE

IDA #3 LDA 497 MIDPT CMP SD0t2

BNE MIDPT LDA #5 STA 3D021 LDA#4

: GREEN SCREEN STA \$D020 ; PURPLE BONDER

LDA 528D BEQ TOP ESCAPE OPTION

RTS

This will give you a split screeo and

Tommy's Tips Tommy's Tips Tommy's Tips

Importance of turning all pecipherals on before the computee. Who is eight?

The great helite or after debate breaks out again? Ideang it logically, whe hever order you power devices up in, there are always going to be some devices which have signois being sent to them before they have gifted to the peripherals an easily are got their own power. Whether this is more dangerous so the 100 chap on the more dangerous so the 100 chap on the retrievant, many and the peripherals an easily retrievant, many and the peripherals are really contributed to the peripheral in really affirm the peripheral is resulted to any of the devices. What is important in that the devices. What is important in that the

devices are initialised correctly.
With a might disk draw and/or printer,
the computer should always be turned on
last; this will entine correct operation.
However, if you have no olds drives (so 2
x 1541s) them the computer most
sound care will offen be tupned; and so
switched on first United with is done the
swood draw will offen be tupned; an one
second draw will offen be tupned; an one
second draw will offen be tupned; and
personal crure. However, a force, and
paging in your care, for Printer, daily,
computer, TV would be my suggestion (it
being the order) always turn man or the
supple in your class, to re-Printer, daily,
computer, TV would be my suggestion (it
being the order) always turn man or the
supple in your class, to returner, daily,
computer, TV would be my suggestion (it
being the order) always turn man or

Vic graphics

Dear Thrimy, I have had a Vic-20 for nearly two years now and I still do not know how to define graphics with more than one coloue in one charactee. Please could you tell me how to do this with a 15K expanded Vic as well as with a mon-expanded Vic as well as with a mon-expanded.

Also, could you tell me of a hook that gives a full list of machine-code

commands foe the Vie-20, Multicolour code is determined by bir 4 of the relevant location in the Colour Reinster This is located between 38400 and 38911 for the unexpanded or 3K Vic and 37888 to 38399 for the L6K Vic. Basically this means you add 8 to the normal colour code for each screen position you want to be multicolour When in multicolour mode, the horizontal resolution to halved, hence normal characters will look quite odd You must define your own characters to make sense of the multicolour mode since the colours are determined by 'pairs' of bits. The colours are then determined by the "but pairs' as follows:

00 - SCREEN COLOUR 10 - CHARACTER COLOUR

01 - BORDER COLOUR 11 - AUXILIARY COLOUR

The streem and border colorum are changed by the same address as normal, the character colour by the colour register (not greater) of the colorum and the foregating is oad of so the value) and the foregating is oad of so the value) and the colorum and th

On the second query, I assume you mean

the op codes and commands fee the 6502, in which case almost any 9502 handbook will be suitable. However, the Fit Programmer's Reference Massual constants all the commands plus many other useful preces of information You may be preceded in the machine-code tustous written specifically for the Vic, which will probably be of more use than just a list of the commands.

BBC lookalike

Bear Immmy, I have recently been using a BBC micro at School, I found that if typed "MODE 3" all the letters and symbols displayed became half a chaeacter wide. Please could you tell me how this entit be achieved on my Commodore 64.

Mode 3 on the BBC gives you an 80 column screen, useful for word processing etc. I regret to say that there is no such mode on the Commodore 54, 40 columns syour maximum. There are some 80 column boards available for the 64, but these are furth expensive (around £60) and deally you also need a monitor to display.

the text,

Luckity, though, two new products have
just appeared (see Utilities feature, this
issue). Both Tasword 64 and the Shado
BBC emulator give the 64 an 80-column
screen—and it's all done in software.

Videa blues

Dear Tommy, I have had my Commodore \$4 and C2N unit fine a yeae and eight months now and until a couple of months ago, it all worked perfectly.

Now, whenever I use my computed fine long periods, things start to go wrong. Whenever the screen scrolls up, down, left or right some characters are coloured randomly black or red, making the letters

impossible to read.

If this happens during a game the computer soon crashes and when I switch the computer off and turn it back an agan characters still turn black and red. The computer is like this until the power supply cools down and I suspect this is the root of the problem.

It is entitledy that the power supply as the cause of the preblem, sitherpally you are correct when you suggest overheating might be. It southst very much in shough the Viv III chap (that control the video), in gening overheating and causing problems. It could also be another chap which is afforming the Viv chap. Either way you have a marginal device somewhere in the hours a marginal device somewhere in the completely excitably and nooth to completely excitably and nooth to be replaced.

Since it is out of warranty it does not have to be repaired by Commodore; there are a number of other repair companies around which may well do a faster job. In any event you are likely to have to pay about £25-£35 for such a repair, but try to get an estimate from the company before communities yourself.

Vonishing code

Dear Thmmy, I have been weiting some simple programs in machineende on my 64, but anything that I peint on the seecen just vanishes when the machine-code program is finished.

Please could you tell me how to get back into a Baste program when the machine-ende is finished. When you say you want to get back to Baste program, I assume you are rumming the machine-onder roungs using a SVS set

When you say you want to get dock you all bases program, I assume you are made a Bases program, I assume you are made as the most assume you are made as the same your machine code ends after 160. If it does not, then the competer will try to action the 'code' it find in the mean your competer will try to action the 'code' it finds in the mean 'you action the 'code' it finds in the mean 'you action the 'code' it finds in the mean 'you action the 'code' it finds in the mean 'you action the 'code' it finds in the mean 'you action the 'code' it finds' can the mean 'you action the 'code' it finds' can the mean 'you action the 'code and 'code a

I suggest if you are going to experiment with machine-code, you might try one of the training programs that are available, such as Commodate's Assembler Tutor or the excellent Dr. Watson Assembly Lan suage Tutor for Beginners, from Honeyfold.

Autarun

Dear Tommy, Please could you tell me of a quick and easy method of making my Commodore 64 run a Basic program immediately aftee loading it from a 1541 disk drive, without having to type in "RUN".

These is so simple way of asternating a Basic program from disk immediately sitted power-up, but there is a way once the first program as in and ranning. One feature of the Commodore machines as that they will compare the commodore machines as that they will compare the commodored program, that is the self-chain's command. Thus you can be read a very small loader program, that must be "RKIN" in the outmand. Thus you can feel that, any program called by the program that it is training will be loaded in a program that it is training that program in moreory) and then run.

The problem is that the system variables are not resist and the end of program will be incorrectly ser if the first (loader) program is shorter than any of the subsequent programs. This can be subsequent programs. This can be overcome by setting the 'end of program' pointers to the largest sace needed. These leads to largest program in the data and then PEEK these 2 addresses? Your until loader programs will then look something.

10 POKE 45,X:POKE 46,Y:CLR 20 PRINT"LOADING — PLEASE WAIT"

30 LOAD"program name>",8
40 END
Where X and Y are the values you
obtained using the PEEKs

EVES NAM MICEOS THE UTILITY SPECIALISTS HARDWARE

....... 20000 THE PERSON

THE NEW GENERATION OF BACKUP METHODS HAS ARRIVED

POWER TO AND RESIDENCE OF THE POWER type of country are made used. Due to be encountered as find source growing and of the country o of motions of factors between the control of the co OCC Made to Prings indicated once, surgice value thank the construction and states as a construction of the construction of th

\$ 70 TANK. Vales bald vals can be made? If Valho depoint with just "Freeded" water Freeded" and Freeded and an appropriate control and a 10 a 1 and 10 a

ONLY £39.95

The tape back up "device"

Doubler has been an enormous success. and continues to sell ven

Because it is the best product of its type that copies all types of software regard less of speed. It consists of hardware and software. The software is the key part at unlike other products of its type Double creates a brand new machine copy it is very easy to use and very successful in fact our tests have proved that this device can athleve 100% success. Requires access to two data recorders.

ONLY E12.95 Why settle for less—this is the best

HARDWARE SPECIALS

STAR SGTOC STAN SGTOC
The utilinate Commododre ready
pointer, 120 cps or 40 cpr in near letter
quality mode. Friction and tractor

PSEO1 PRINTER ONLY 6249.00 Popular printer at a stune DNLY ESP. 94 MPSS03 PRINTER Exceptional print quality for sh

1541 DISC DRIVE ONLY file or Look at this price, it is not a mit DISC NOTCHER ONLY £149.95

DISC NOTCHER
Handly new soul allews you to punch a
second with protect notch in your
discs. Deuble your disc capacity by
using both sides of your discs.

CAN YOUR DE ONLY EP.95

QUICKOISC + UNLITY CANTRIDGE

point (Shifting) that you will hardly one-year, I reducin the following.

Feet LOAD and SAVE Four to like which methods the following.

Feet LOAD and SAVE Four to like which hardly one-year, White will neg projected software. On the owen

out broad (#P.O.)

All The Medies sharing as 19 broads.

All The Medies sharing as 19 broads.

The Medies sharing as 19 broads.

The Medies sharing as 19 broads.

The Medies for price of the Company of the Medies of the Medies of the Medies for price of the Company of the Medies for price of the Company of the Medies of th medich für statistis etwa. A 2003 mehrbe hand sinn da im umspacifie is statistischen No Makkent zu 1904 bis nich strauge is albudy. Europairet umstand gesell in No Makkent zu 1904 bis nich strauge is albudy. Europairet umstand special in Nobi his prita. Pit. co. co. (47%, 15 mil erwin halt final math. Chr. you all years to CNAX 1914 of CNAX 1914 bis nich and control pritary with QUODING 4 and under more pritary indicated.

DISC DISECTOR V3.0

ALIGNMENT PROBLEMS? 1541 PHYSICAL EXAM

SELECTED UTILITIE

OD the best tape to disk citing for nortal gives leading or nortal gives leadi new colony tapes to "narrow" lead Stople and

COMMODIQUE CONNESSON

twise and come for connecting any contrasting type soler to the 64 Or convent Outskale; + ORE, Y 412 75 UNCODES A contracted by fault to the dates, include none of contraction

DIST (24.9

3M Floppy Disks

BOXES OF TEN DISCS \$1600 NEW SPECIAL PACKS WITH

_ _ £17,00 including Case



All prices include P&P and VAT. Send cheque, Postal Order or Credit Card No. Credit Card orders accepted by phone. Callers welcome. Wide range of goods stocked. Trade enquiries welcome. European orders send price as advertised. Outside Europe £2.00 for air-

mail. Mail order to Evesham Shop please.

EVESHAM MICROS BRIDGE STREET, EVESHAM, WORCESTERSHIRE Tel: 0386 41989

MICRO CENTRE 1756 PERSHORE ROAD, COTTERIDGE, BIRMINGHAM.

Tel: 021-458 4564

4046 plus C64

Cheap C&4 software.

C16 Word Pracessos Test IC

- vertu At

- Lindle divini entirendi delere sopor

tab investi umeno delere sopor

Amateur Radio

1541 disk drives! "un digital need

e 123 5041 gtor 533

| C16 Word Processor feet IC | Cheap C&4 software. All 17 ured | 4040 plus C64 tiltis MPS 802 in her software worth over | Amateur Radio in Idik CBM |
|--|---|--|--|
| *Zertu ze il facire si *cli de a vi il est variable | | # 11 ond come for under | |
| tab insert urnena delere papy | restrok % 70 pc | Andk eym I his really a a | gidate" ruggam plus distance |
| move lest night justfield word cour? | | Andk evin I his reply sign | |
| etc. Fully menu driven with | a r e sole | bargeria any \$450 EE interface included No offers | r, tik 1436 / 74 |
| comprehensive easy to use instructions. Great value. Costellie. | | nctional Novites | CRM 64 communications |
| | CHM 80325K 5350 +VAI. 50 | C-16 software kanct) Delence | 1 20 COC |
| | | rite in Dirace 3.35 mic. | hms with transfer |
| C16 File Jetu in Taxes he plant of , old index Facilities | | - I man you A Tall pice 'el | took to 2 90 Let |
| me rate full salt udd amend | | | DOOK 30 15 405 151 |
| | # UIG . + 1 & | 1 11 11432 | Make your 64 in the wift of |
| protection savefocalfile direct and special searches, print all part | CIM 44 "Koydubbleyoobse" | Any body world two ther | KN 151495 Chaice V |
| | 1 J-1 1 F 20 | e all anason | |
| Cosselte \$5.95 | | ete with laying an agram service 4 | Pepiacas original in likemotleichange |
| | | - 13 V 2. storier | |
| act programs our be used with us direct connect if it printers | - rean rE. Dr | | 1x xx millionne's \$14.95 Details |
| including 520 pirriest, her as | | cterops | ing religion y 1 to 19 |
| delivery by histic aus mai. Sena. | Screen Dump to 1. | | |
| chequisiPO to A.A.C. Schware 75. Jakharpe Gardens "ividade Vi | more Boall United by precise | Volce marter, I A M x4 schware 1 and marter, I A M and sends referen | PROFESSIONAL |
| Midlandr 869.2 | The Did Coo. h | where the histories of the | Commodore Repairs |
| | . In triangle on hel Reds | water as the second of the second of | The complete Commedore Service |
| Entrepo quick data drive | 12 % | exchange I Half I Lempe i ie | We have all the spaces to stock to give |
| | | Muse & Asthure | yes a FAST and RELIAGLE service: Commadore 64 |
| | Disk ZZZPI in powerfill the fliny I kidne Carona 2 | Selkosha GP100-VC resides 8 Vo. | |
| | elines for dak | I family angest | C2N |
| Commodore 64 owner ACT is In | | eto Vol 1 3/1 / 1 | * Full Interhous diagnostic and |
| JE TO ANT | R in Interrupeque Pr Toxerii | 46661 C | |
| | | | * Six menths warresty on all repairs * Above prices inclusive of labour sell return posters. Parts exile. |
| and the state of t | | New modern for safe with Losy | RING 0234 213645 NOW! |
| 2 2 2 T 1 12 15 15 15 15 15 15 15 15 15 15 15 15 15 | C16 owner celling penpas to | wder flook or | send faulty items with description to |
| C64 triend wante 112 cm | Horagians to | AGET FOR U | ZEDEM COMPUTERS LTD |
| Con Hinna Matter 11: CE | ber in no 2K 25 ' | | T KIND THE BOAR STREET WAS THE |
| | | COMMODORE 64 | Treat and peersons endones were not |
| | Type - This Williams | COMPLITER REPAIRS | |
| | 3000 | | Penpal wanted x rM 4 conto |
| | C-16 plue 1525 in langua corres | Fest reliable computer repeirs with e-6 months waitenly on replaced parts | too I lik I mersled |
| Vic 20 starter pack, - 1 h | 2 x 3 f x r 2 12 M1393r | All Inclusive prices are from £14.95 to £28.75 and include perfe labour, post | preov in Archibatel |
| k ++ mmon k - te gride * | Vic garries for sale, Minikana | end packing interence and VAT No hidden charpes | 14 r 18 cr nowered |
| | | CLARK KENT SOFTWARE, 25 NORTH | |
| | | CAFE WALK, CORRY, MONTHANTS MININ | CX 64 C2N cossette 154 rds. size with 230 |
| 1 tr cobs - 1 tr | r seredi - i r lladov | 500 | I Lizanti nge maac |
| | mar Lung arabus Scotonia | Fyther derivate rel: (0539) 742922 | |
| | | | in a supplier of for \$25° and Wild Halter Sunnyade Egindout |
| I CLASSI | FIED ORDE | DEODM | kend indon NW3 2PB |
| | TED ONDE | IN FORIN | |
| Lineage — 15p per word to | , | 12 | Easysteipi \$40 Brand new seved |
| private individuals — | | | six fix free games |
| 20 words min 40 wordsy- | | | |
| 30p per word to Trade | | i | Volk 39 4 799121 |
| 20 words min - 40 words | - 4 | | Vic penpal wanted newop |
| Semi-discloy = \$2.50 tor S.C.C. | | - | tions addition stand all of |
| Ring 01-251 5222 | 1 | - | rings ingother send shot |
| All classified and semi-display odverlang a pre-payable | 25 | 21 | Jume alle to Ladlow C Francis Comp Broibir Scotland |
| 22 | . 18 | | |
| When playing for advertisements please god 25 | 26 | | Commodore 64 database 10 |
| on 15% for VAT | | | mieru i seit i ve seorchi |
| | | - | herp Nienu dr. v. Jasette 55 45 Janet remittanco I ison Software |
| State Name | 10 | 2 | and remittance is an Software |
| It is likeged he sell pireled copies 24 | 30 | 1 1 | nicleibus Rv., a Vhwtor Hall- ithem 15kh |
| of computer gomes. The entry self-ware that can be sold | | | |
| ingrimately through our | | | Vic 20 in machine code |
| | | | su need a contage and |
| toought from shops or by roull | All clossfied arts are subsect | to space oveletally | nom a evansion kr. List ordit |

Fig. minepolities

Fig. minepolities

Fig. minepolities

Fig. mode operates

Fig. mode

For to AD DEPT, COMMODICE USER, 36-32 PARRINGOOM LANE, BOYE SAU

None Address

Total number of words

NEXT MONTH

Here they are — the Top Twenty games of 85.

Reviewed by our elite corps of G Force reviewers complete with hints and tips. Don't miss this great free supplement on the front cover of *Commodore User* next month. Packed full of huge colour screen shots and a once in a lifetime chance for you to join the G Force.

* Star programmers Xmas

shopping list.

★Type in Christmas Carol.

*Santa's database the busy 64 in toyland.

*Bags of games and goodies to be won.

*Bumper Screen Scene more game reviews than ever as the G Force put the big Yuletide releases through their paces. On sale Nov 26. Make sure of your

COMMODORE 64 DATABASE - DATAFILE

Powerful options include, mint allenfective muority delete, amond save load Powerful options include print airsniective muords deleti airmina seve nead copy alphanument sort user delined lields memory pheck total numeric lields reasy to use instructions CSM 64 (compiled): cassesta £7 45. disk £10 45

COMMODORE 64 WORDPRO - TEXTFILE

or thes independe he handing part asplanted ind ind indig intensionelled.

Totelersive easy to use instructions. Great value. CMB 64 (compiled):

cassette £8 25. diek £10.75 All programs with full documentation and guarantice and can be used with all direct connect CBMSR parties, including 1520 participations. Also most centions, with suitable hardware invalidace, Place includes laid delivery by lest,

A & C SOFTWARE BADE, A 72 CHASTOTTO SUFFICIENT, THROUGH, THE A PROJECT WILL S.

Programming the Commodore 64 The C64 Handbook



n bookeders. I onested tre Selfated ord in the dead medigated resus in Level UP. Computer Pathiculates, Boths, Bartharian 1st. Mar Revol. Participal Leven. Nr. Blookers. B. Navers. RH 13 httl. Telesbare. 645, 73 (84).

COMMODORE 64, 128 AND VIC-20 TAPE BACK-UP BOARD

"THE BEST VALUE FOR MONEY BACK UP BOARDS FOR CRM COMPUTERS"

RESET CARTRIDGE

FOR THE COMMODORE 64" Propy used the Reset Carindge into the annage on the standard use unaneweld memory social plograms, which is used at proposes the standard need over the field oness TY-Asset Cartneds male, wome on ALL programs. Prived at 2795 or PSF

CLARK KENT SOFTWARE 26 North Case Walk, Corby, Northards NN16 9DQ

| | NO VIEW renorms SEATICE for in- | |
|--------------------------|------------------------------------|--------|
| | Prough deletioner filtral andres a | |
| | | |
| 1 to \$11 99 cape \$7.99 | | |
| | | |
| | Lr imgremettation of Piscrigrod | |
| | Etu processino - 7 ordes Care o | |
| armine in move 7 gags | | |
| | grade. Each conded r 9 minors | |
| | | |
| SW with the service | | |
| THOS - 1 \$12.95 yearns | | |
| Zoom Fancel | Callerd Power at | \$20 D |
| Synthy St | Fr II C-Comprier | |
| Time Basic Compiler | Anatotty of IS41 6 dove - | £12.1 |
| | | |
| | everseoon dd 63. | |
| | mn - databases word process | |
| | printing refilted books & mus | |
| | | |
| DYNAMITE SOFTWARE d | FREE ASSEMBLER 64 OF | |
| | adders over Lts. Disk or lag | |

COMMODORE **OWNERS**

Are your a manic ascarts of icaled adventureristrategial, or do you want in independent no-nonsense unitual review of current software/utilities? Whichever we have the brochuse(n) for youl Based on the formula which has already produced the successful

Hinlis and Pokes brochuses we are now able to offer not 1 but 3 Individually failured brochures specific to the Commodore and your own Certifusiar interests ration on the above and our other computing

services, send an SAE to H&D SERVICES (CU) FREEPOST (no stamp required) **MANCHESTER M11 2FA** Tel: 061-370 S666



BANK MANAGER IS NO

may be taked to take to have the way of a page of the page of the

Data · Ade

BACK-UP all your labe prop

CEM 64 C125 OH VIC 20 E12:56 TEN BAY MONEY BACK QUARANTEE

Wirhbone Software

MEET THE MIND CHALLENGE OF

HIT & MISS

DEMAND YOUR COPY NOW - COMPLETE WITH FREE POSTER - BEFORE IT'S TOO LATE

COMMODORE C16/PLUS 4 VENTUREGATE - SOFTWARE - LTD

DANKEDS 64

If you are fed up not being not to keep parked upon that accound that program to feat up not being not to keep parked upon that accound that program for feat what you are footing for Simple to rise and is return account of which foot fell is settled or Cerebic Standard, opened areas flower Dashed and will for technically galace them if dash order. If will give you alchoteasts to at zero or years in studing health parked to be supple to the parked parked to be supple to the parked point of the parked parked parked point you do you account to by many and Standard yould not have been done to the parked to the parked park

RAM FILE

to timut of your Soltware. Record : Stemp Collection. Addresses his with this title, sufected mitty or upmplete that to hely printer incir sing t wan be stored on both dish and lape. This erec program is visity good value nit \$3.25 effek, 84.00 teps.

Special Other — Both programs \$16.01sk Both programs \$7.00 Thos All programs VAT & P&P Gheol es 8 P.O. Io REF ELECTRONICS 27 Denhum Way, Cheber Rye, Enni Sunsex TN13 7XP 7h1 (0797) 225549

ATLANTIS SOFTWARE

"TRIGGER HAPPY"

20 levels of enthralling space action CBM 64 Joystick Only Cassette £4.50: Diskette £8.99 40p P&P

Cheques/POs to: ATLANTIS SOFTWARE

26 Thalassa Road, Worthing, West Sussex BN11 2HJ

*BACK-UP-SYSTEMS FOR CBM-64 & VIC-20 *

The BACK UP BORPO ME. I in the fastiseld and restantively blobach in providing programs. With thinkost you while need he conditional cases in fact to your conjude. You are copy a program or the secred Sock which the original passes for the field it bouce is back up of that leaders, with these in EMECAP SOURCES AND SOURCES. ENLIGHTE-JAGE
BACK UP-SCAPOWAZ, Thinney-version of our lamoun BACK UP-SCAPO now works I wowey. Switched to
NOVINEAL inspection activities: Saint hed to CENERATE. Bit camprocriticoccus specify families
softwards to represent surgicy of hip opinh and he second decriny to celebrate his has in the snational
souther shall require countiling over the anti-innecessary labels. JAB SCAPOWAZ States were 14 States. And

portexion a gray.

A transfer with a first processing the BB for SMTCB CORPOR for the Charles on a construction in a second colories or all them.

JOYSTICK PORT SWITCH for CSMS4 Used Insuductor location for to change inversed it to part 2nt the

control to the control of the contro

Section Fundament (No. 1) TUBBOTROMEC Sept OF , 48 Rigon Street, Printing on Lang. HALFAX, Well Yesterler HC1 2UG, Teh (H420 5200 EELING) HALFAX Well Yesterler HC1 2UG, Teh (H420 5200 EELING) HALFAX Well Yesterler HC1 2UG. Teh (H420 5200 EELING) HALFAX H

Exciting Speech & Graphic Air Traffic Control Action,



